D-NE1/NE9

SERVICE MANUAL

Ver. 1.6 2006.03

Photo : D-NE9

US Model
D-NE1
Canadian Model
AEP Model
D-NE1/NE9
UK Model
D-NE1
E Model
Australian Model
Chinese Model
Tourist Model
D-NE1/NE9

US and foreign patents licensed from Dolby Laboratories.

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-3325ER2
Optical Pick-up Name	DAX-25E

SPECIFICATIONS

System
Compact disc digital audio system

Laser diode properties
Material: GaAlAs
Wavelength: λ = 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 μW
(This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

D-A conversion
1-bit quartz time-axis control

Frequency response
20 - 20 000 Hz $^{+1}_{-2}$ dB (measured by JEITA CP-307)

Output (at 4.5 V input level)
Line output (stereo minijack)
Output level 0.7 V rms at 47 kΩ
Recommended load impedance over 10 kΩ
Headphones (stereo minijack)
Approx. 5 mW + Approx. 5 mW at 16 Ω
(Approx. 1.5 mW + Approx. 1.5 mW at 16 Ω)*
*For the customers in Europe
Optical digital output (optical output connector)
Output level: –21 - –15 dBm
Wavelength: 630 - 690 nm at peak level

Power requirements
For the area code of the model you purchased, check the upper left side of the bar code on the package.
- Two Sony NH-14WM (A) rechargeable batteries: 1.2 V DC × 2
- Two LR6 (size AA) batteries: 1.5 V DC × 2
- AC power adaptor (DC IN 4.5 V jack):
  US, Canadian and Taiwan models:
  120V, 60 Hz
  UK model: 230 V, 50 Hz
  Australian model: 240V, 50 Hz
  AEP, Tourist, E18, Korean and East Europe models:
  100 - 240 V, 50/60 Hz
  Hong Kong model: 230 V, 50 Hz
  Chinese model: 220 V, 50 Hz

Battery life*1 (approx. hours)
(When you use the CD player on a flat and stable surface)
Playing time varies depending on how the CD player is used.

When using two NH-14WM (A) (charged for about 5 hours*2)
< > : NH-10WM

	G-PROTECTION "1"	G-PROTECTION "2"
Audio CD	35 <25>	32 <23>
ATRAC3plus file*3	55 <40>	55 <40>
MP3 file*4	50 <35>	50 <35>

When using external battery case (two alkaline batteries*5)

	G-PROTECTION "1"	G-PROTECTION "2"
Audio CD	55	50
ATRAC3plus file*3	95	95
MP3 file*4	85	85

When using two NH-14WM (A) and external battery case (two alkaline batteries*5)
< > : NH-10WM

	G-PROTECTION "1"	G-PROTECTION "2"
Audio CD	90 <80>	82 <73>
ATRAC3plus file*3	150 <135>	150 <135>
MP3 file*4	135 <120>	135 <120>

- Abbreviation
  E18: 100-230V AC area in E model

— Continued on next page —

PORTABLE CD PLAYER

9-877-308-07
2006C16-1
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Sony Corporation
Personal Audio Division
Published by Sony Techno Create Corporation

SONY

*1 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)
*2 Charging time varies depending on how the rechargeable battery is used.
*3 Recorded at 48 kbps or 64 kbps
*4 Recorded at 128 kbps
*5 When using Sony alkaline batteries LR6 (SG) (produced in Japan)

Operating temperature
5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (excluding projecting parts and controls)
Approx. 135.4 × 135.4 × 15.8 mm
(5 3/8 × 5 3/8 × 5/8 in.)

Mass (excluding accessories)
Approx. 179 g (6.4 oz.)

Supplied accessories
AC power adaptor (1)
Rechargeable batteries (2)
Battery carrying case (1)
Headphones / earphones (1)
Remote control (1)
Charging stand (1)
Carrying pouch (1)
External battery case (1)
CD-ROM (Sonic Stage Simple Burner) (1)
User's guide for Sonic Stage Simple Burner (1)

Design and specifications are subject to change without notice.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

On AC poweradaptor
- Use only the AC power adaptor supplied or recommeded in "Accessories (supplied/optional)." Do not use any other AC power adaptor. It may cause a malfunction.

Polarity of the plug

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Unleaded solder
Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK
Unleaded solder has the following characteristics.
- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SECTION 1
SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

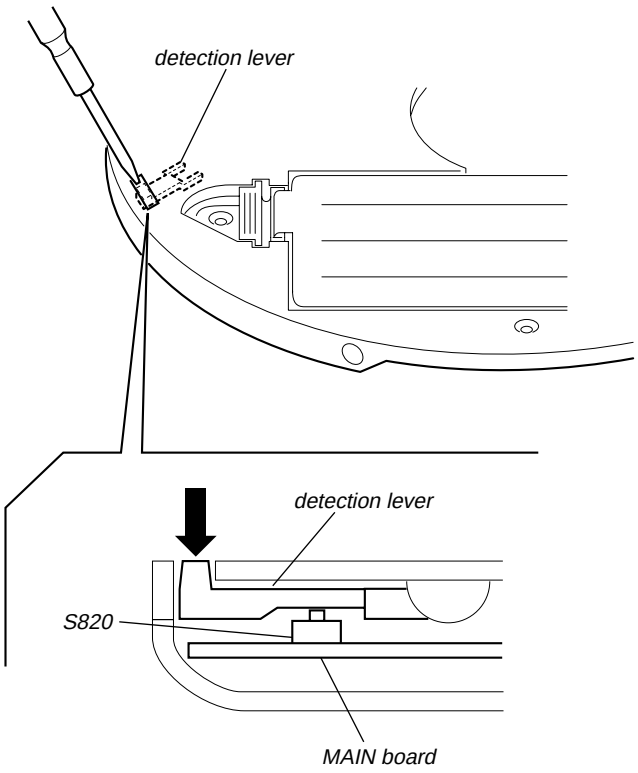


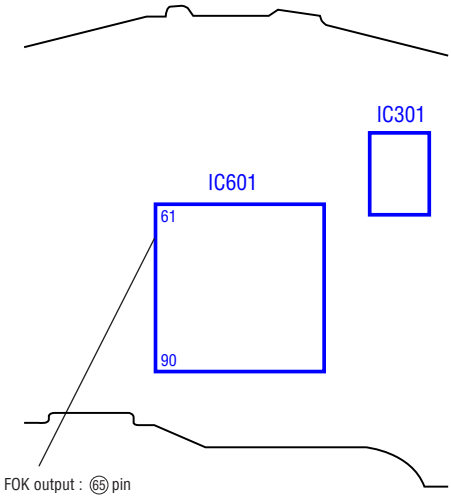
Fig. 1 Method to push the S820

BEFORE REPLACING THE OPTICAL PICK-UP BLOCK

Please be sure to check thoroughly the parameters as par the "Optical Pick-Up Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block.
Note and specifications required to check are given below.

- FOK output: IC601 ⑮ pin
  When checking FOK, remove the lead wire to disc motor.
- RF signal P-to-P value: 0.45 to 0.65 Vp-p

【MAIN BOARD】 (SIDE B)



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S820. (push switch type)
The following checking method for the laser diode is operable.

- **Method:**
  Emission of the laser diode is visually checked.

1. Open the upper lid.
2. With a disc not set, turn on the S820 with a screwdriver having a thin tip as shown in Fig.1.
3. Press the ▶II button.
4. Observing the objective lens, check that the laser diode emits light.
   When the laser diode does not emit light, automatic power control circuit or optical pickup is faulty.
   In this operation, the objective lens will move up and down 4 times along with inward motion for the focus search.

SERVICE MODE

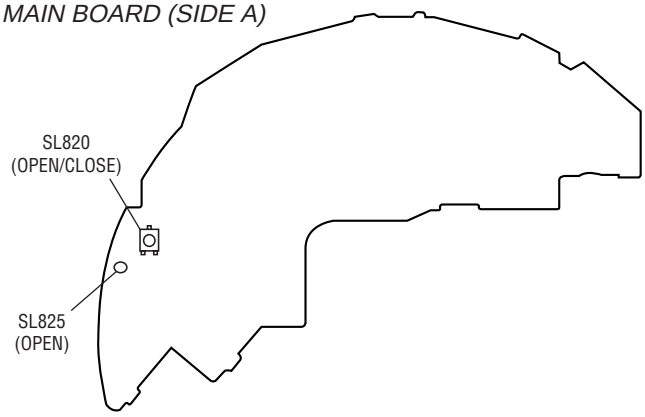
The following confirmation can be performed when the Service Mode is set.

1. How to set the Service Mode.

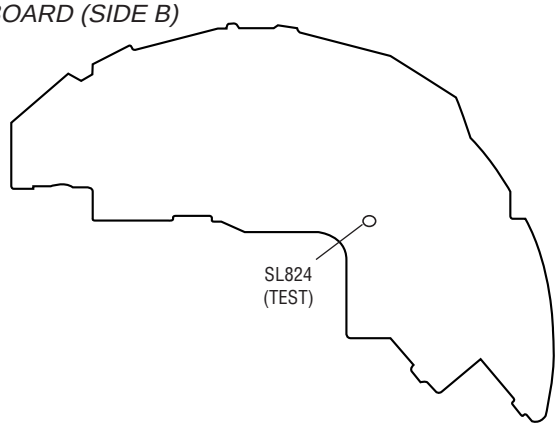
To set the Service Mode, the following method is available.

1) Confirm the set is not powered on.
2) Confirm the following settings.
   OPEN/CLOSE detect switch (S820) ..... OFF
   Solder Land (SL825) ..... OPEN
   AVLS switch (S821) ..... NORM
   HOLD switch (S810) ..... OFF
   G-PROTECTION switch (S811) 1
3) Short the solder land SL824 (TEST) on the MAIN board.
4) Turn on the main power.

MAIN BOARD (SIDE A)



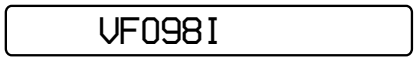
MAIN BOARD (SIDE B)



2. Operation when the Service Mode is set.

When the Service Mode becomes active, following messages are displayed onthe remote control LCD.

Microcomputer version display



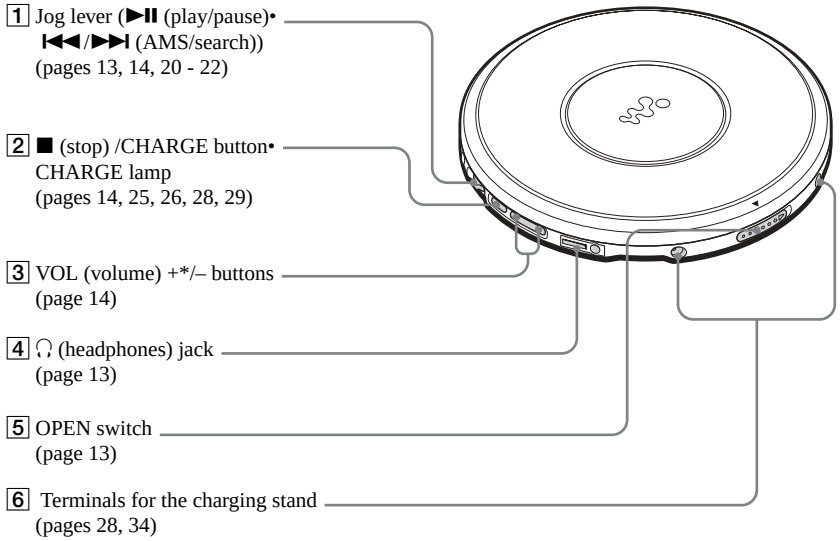
1) Turn off the power.
2) Open the solder land SL824 (TEST) on the MAIN board.
   Noto : The solder should be removed clean.

SECTION 2
GENERAL

This section is extracted from instruction manual.

Locating the controls

CD player (front) (D-NE1)



1 Jog lever (▶II (play/pause)• I◀◀/▶▶I (AMS/search)) (pages 13, 14, 20 - 22)

2 ■ (stop) /CHARGE button• CHARGE lamp (pages 14, 25, 26, 28, 29)

3 VOL (volume) +*/– buttons (page 14)

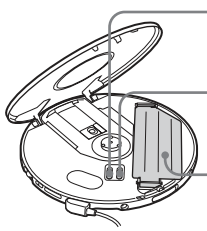
4 ∩ (headphones) jack (page 13)

5 OPEN switch (page 13)

6 Terminals for the charging stand (pages 28, 34)

*The button has a tactile dot.

CD player (inside)

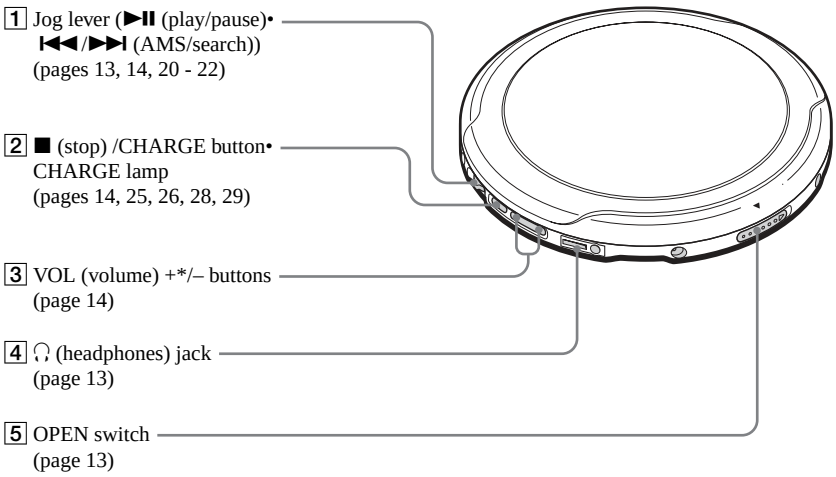


7 AVLS switch (page 25)

8 G-PROTECTION switch (page 23)

9 Battery compartment (page 28, 30)

CD player (front) (D-NE9)



1 Jog lever (▶II (play/pause)• I◀◀/▶▶I (AMS/search)) (pages 13, 14, 20 - 22)

2 ■ (stop) /CHARGE button• CHARGE lamp (pages 14, 25, 26, 28, 29)

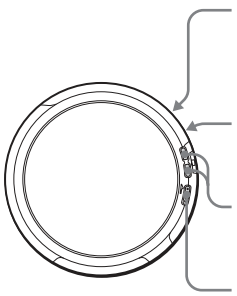
3 VOL (volume) +*/– buttons (page 14)

4 ∩ (headphones) jack (page 13)

5 OPEN switch (page 13)

*The button has a tactile dot.

CD player (rear)



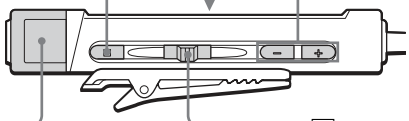
10 EXT BATT (external battery)/ DC IN 4.5 V (external power input) jack (pages 13, 29, 31)

11 LINE OUT (OPTICAL) jack (page 27)

12 🗀 +/– buttons (pages 14, 22)

13 HOLD switch (page 25)

Remote control



14 ■ (stop) button (pages 14, 26)

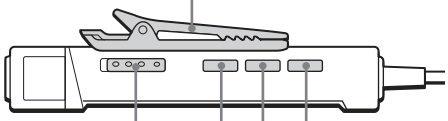
16 Display (pages 15, 18, 21 - 25)

17 🗀 +/– buttons (pages 14, 22)

15 VOL (volume) +/– control (page 14)

18 Jog lever (▶II (play/pause)• ENT (enter)• I◀◀ /▶▶I (AMS/search)) (pages 14, 18, 20 - 22)

19 Clip (page 11)



20 HOLD switch (page 25)

22 SOUND button (page 24)

21 DISPLAY button (pages 15, 23, 24)

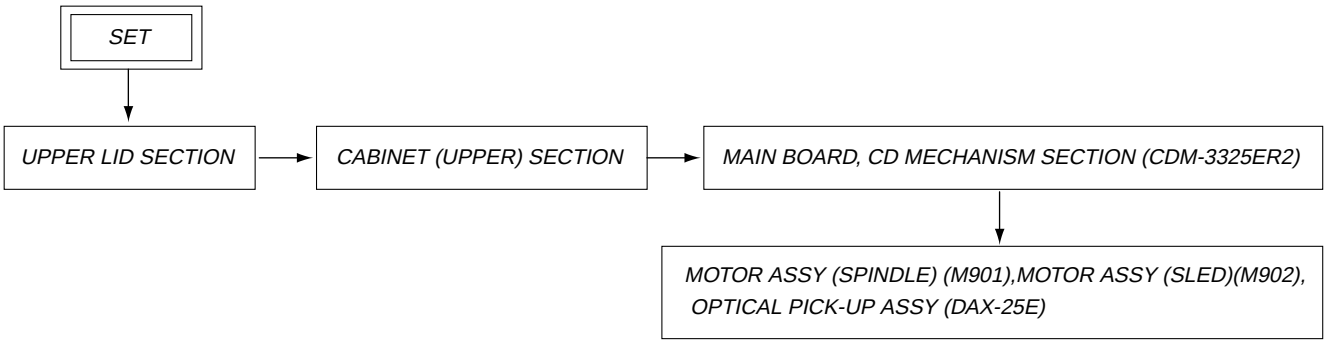
23 P MODE/↻ (play mode/repeat) button (pages 18 - 22, 26)

Note

Use only the supplied remote control. You cannot operate this CD player with the remote control supplied with other CD players.

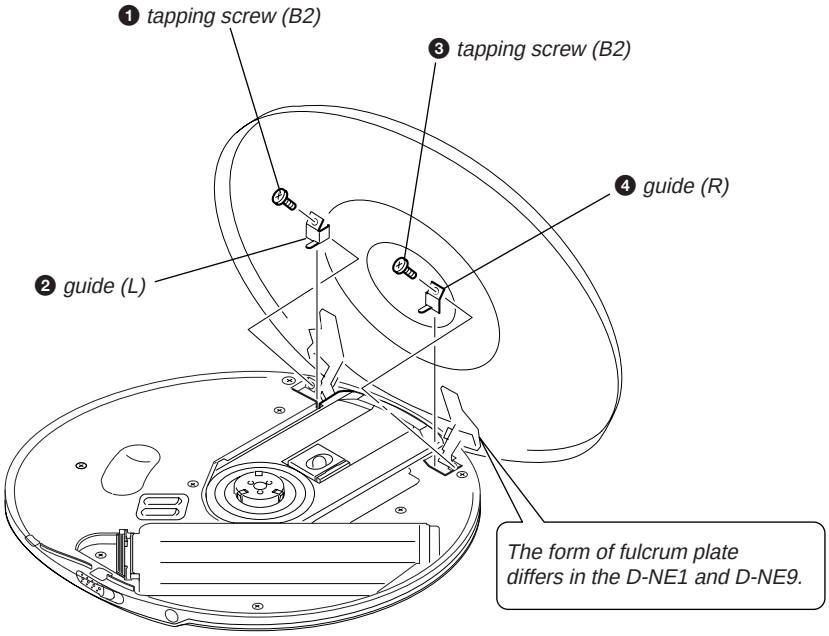
SECTION 3
DISASSEMBLY

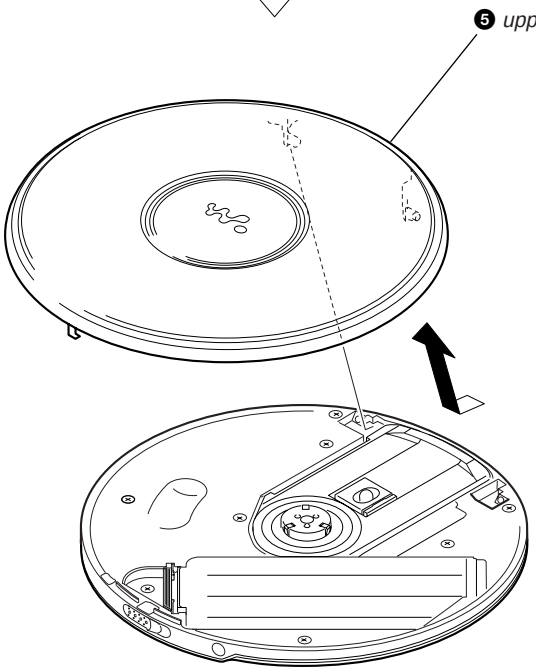
Note : Disassemble the unit in the order as shown below.



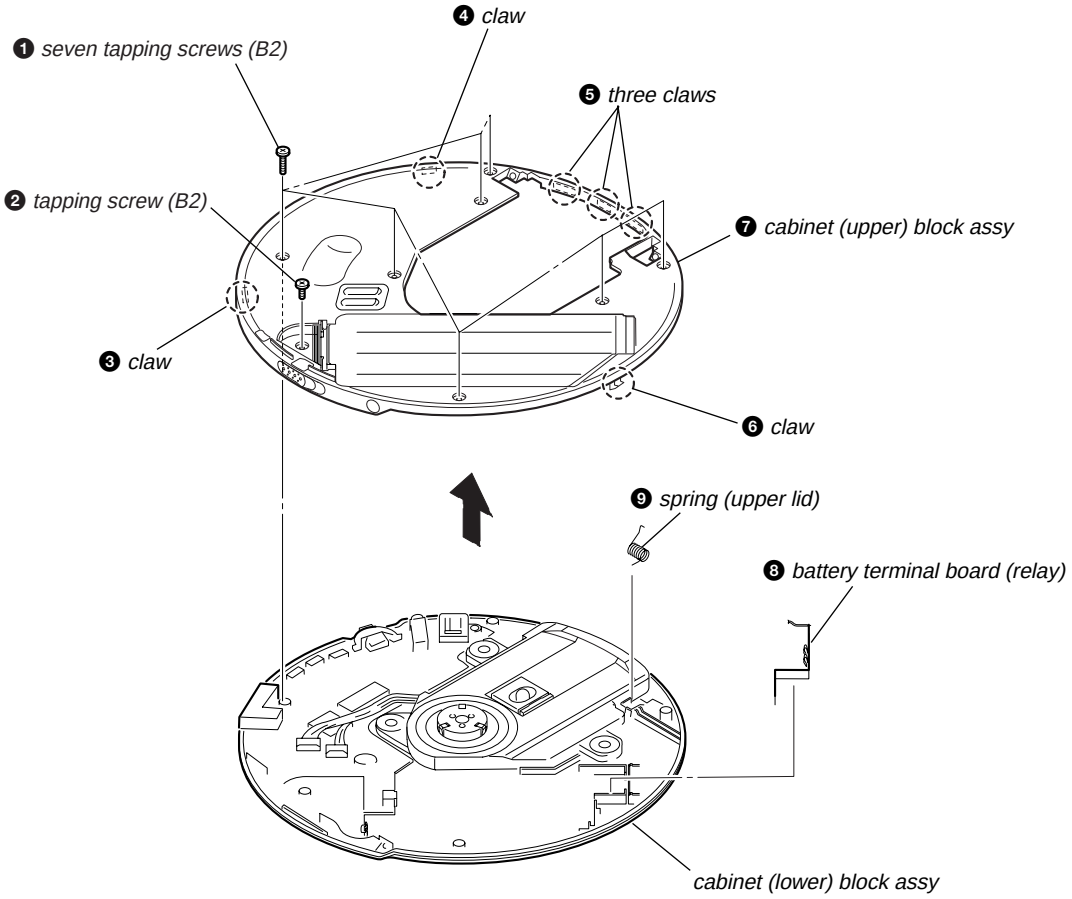
Note : Follow the disassembly procedure in the numerical order given.

3-1. Upper Lid Section

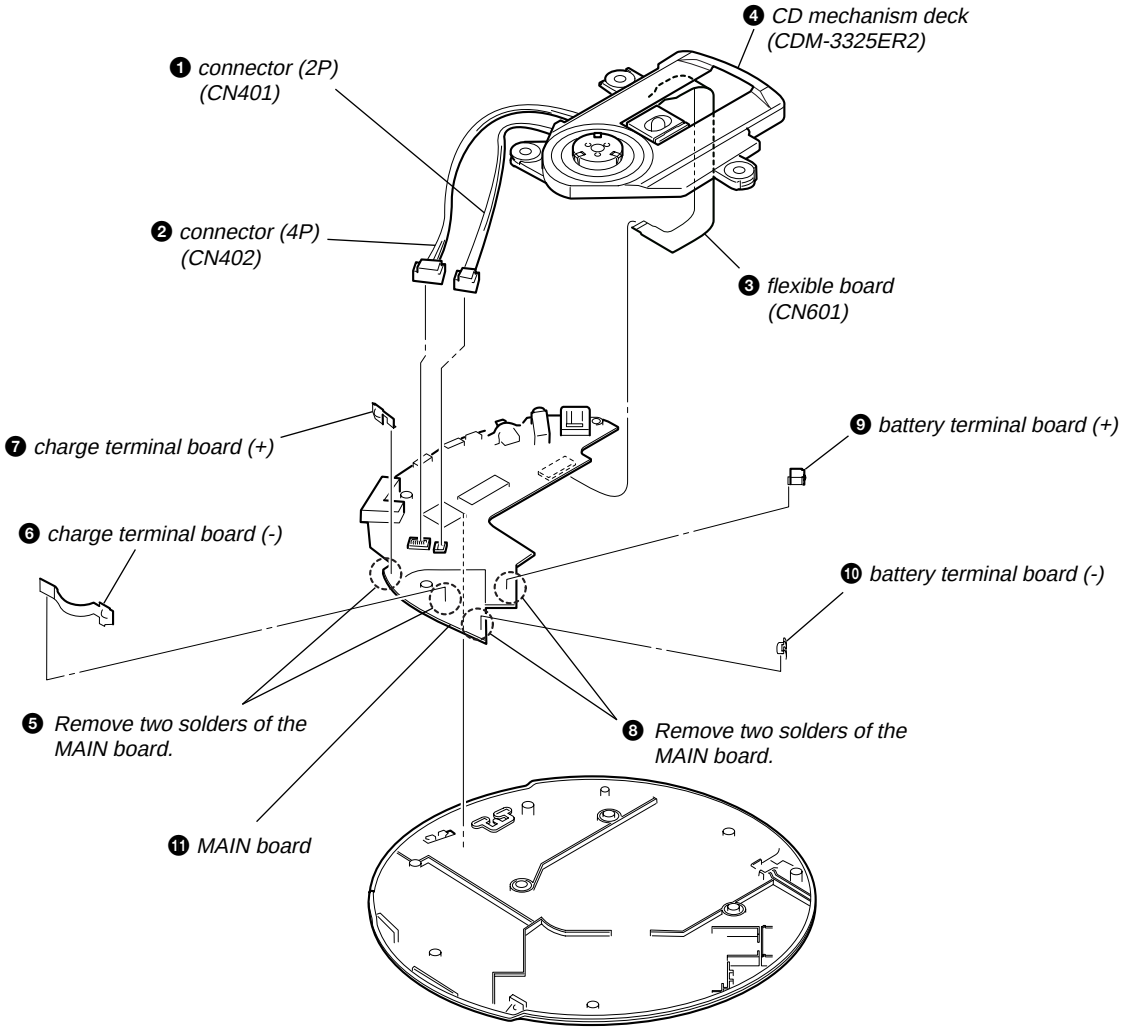




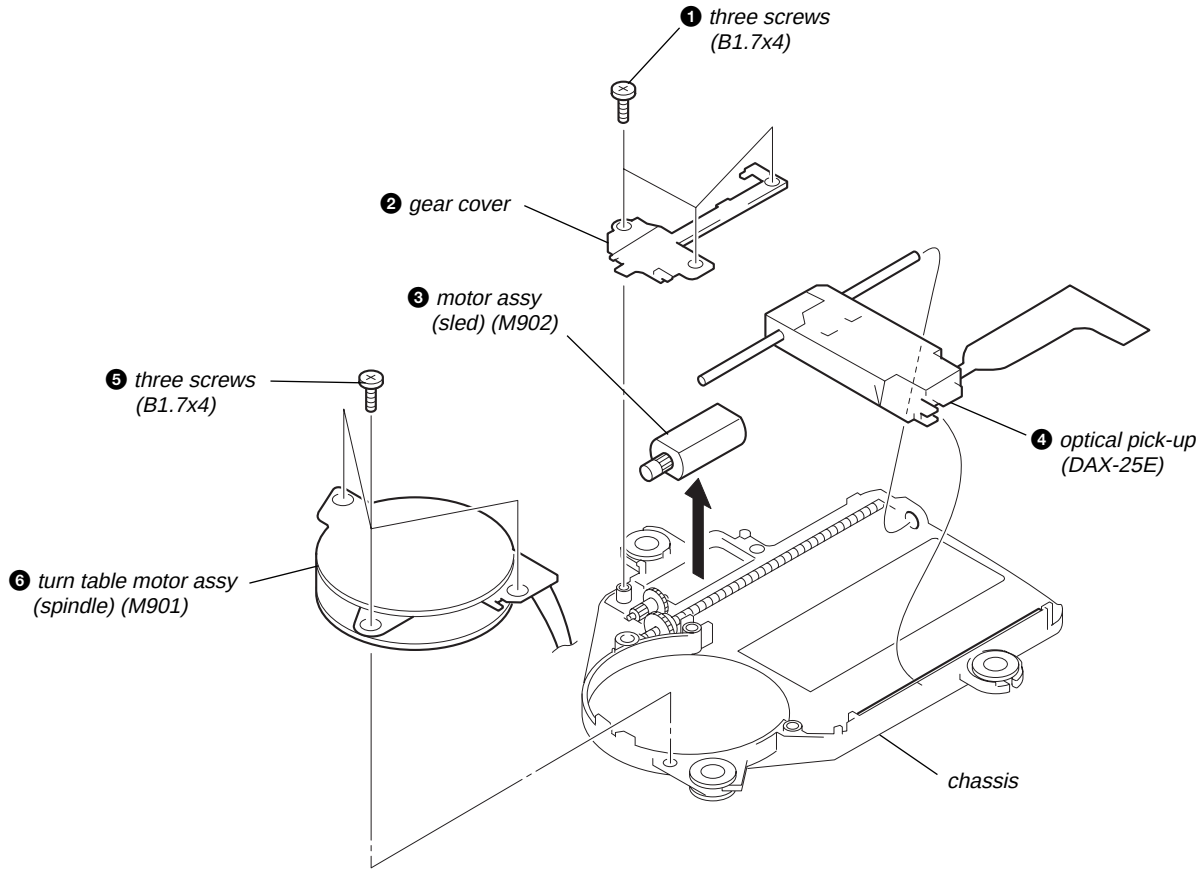
3-2. Cabinet (upper) Section



3-3. MAIN Board, CD Mechanism Section (CDM-3325ER2)


❹ CD mechanism deck (CDM-3325ER2)
❶ connector (2P) (CN401)
❷ connector (4P) (CN402)
❸ flexible board (CN601)
❼ charge terminal board (+)
❾ battery terminal board (+)
❻ charge terminal board (-)
❿ battery terminal board (-)
❺ Remove two solders of the MAIN board.
❽ Remove two solders of the MAIN board.
⓫ MAIN board

3-4. Motor Assy (Spindle)(M901), Motor Assy (Sled)(M902), Optical Pick-up Assy (DAX-25E)



SECTION 4
ELECTRICAL CHECKING

The CD section adjustments are done automatically in this set.
In case of operation check, confirm that RF level.

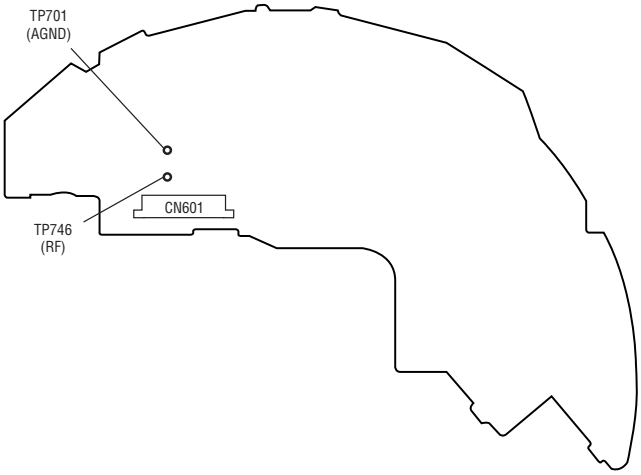
Precautions for Check

1. Perform check in the order given.
2. Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
3. Power supply voltage requirement : DC4.5 V in DC IN jack. (J401)

VOLUME button	: Minimum
AVLS switch	: NORM
HOLD switch	: OFF
G-PROTECTION switch	: 1

Checking Location:

– MAIN board (Side B) –

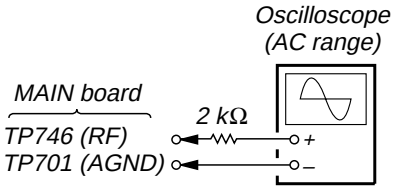


RF Level Check

Condition:

• Hold the set in horizontal state.

Connection:

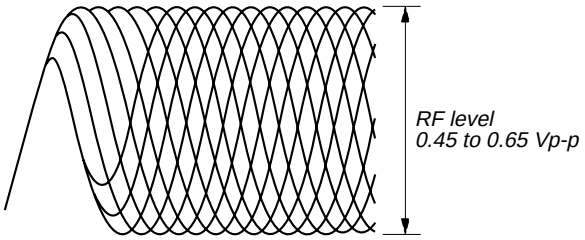


Procedure:

1. Connect the oscilloscope to the test points TP746 (RF) and TP701 (AGND) on the MAIN board.
2. Set a disc. (YEDS-18)
3. Press the ▶II button.
4. Check the oscilloscope waveform is as shown below.
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

RF Signal reference Waveform (Eye Pattern)

VOLT/DIV : 100 mV (With the 10:1 probe in use)
TIME/DIV : 500 ns



To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

5. Stop revolving of the disc motor by pressing the ■ button.

SECTION 5
DIAGRAMS

NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- MAIN board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in the diagram.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : panel designation.

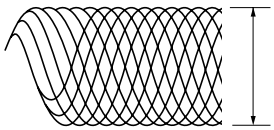
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- Total current is measured with CD installed.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from DC IN jack (J401).
- Voltages and waveforms are dc with respect to ground in playback mode.
  no mark : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY (ANALOG OUT)
  ⇨ : CD PLAY (OPTICAL OUT)

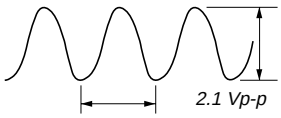
☆When IC803 is damaged, replace the MAIN board.

• WAVEFORMS

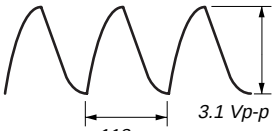
① IC601 ㉞ RFAC
100mV/DIV, 400ns/DIV



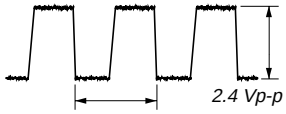
② IC601 ㊽ XTAO
1V/DIV, 20ns/DIV



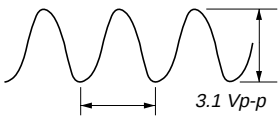
③ IC801 ㉘ XIN
1V/DIV, 40ns/DIV



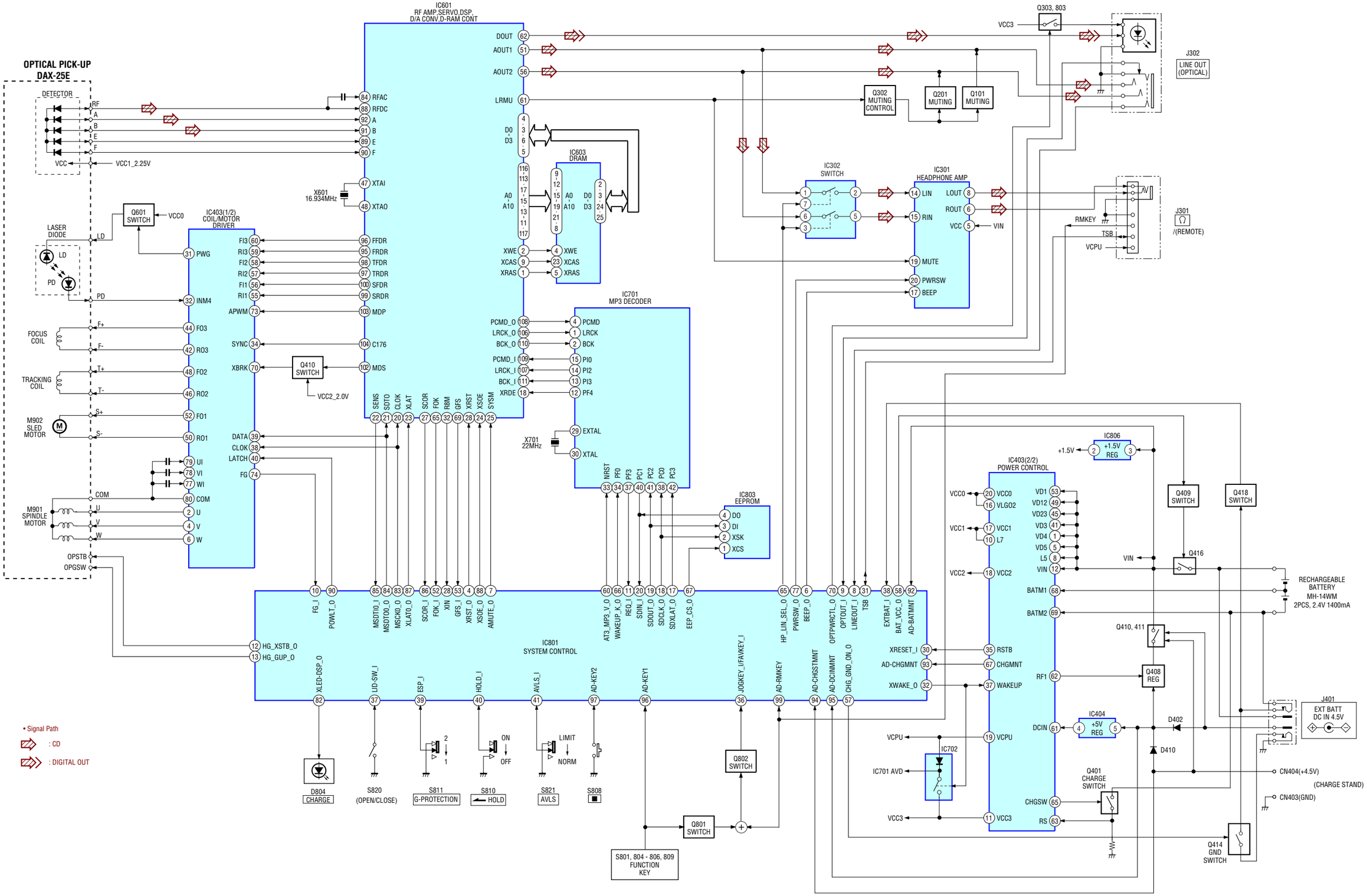
④ IC403 ㉞ SYNC
1V/DIV, 2us/DIV



⑤ IC701 ㉚ XTAL
1V/DIV, 20ns/DIV

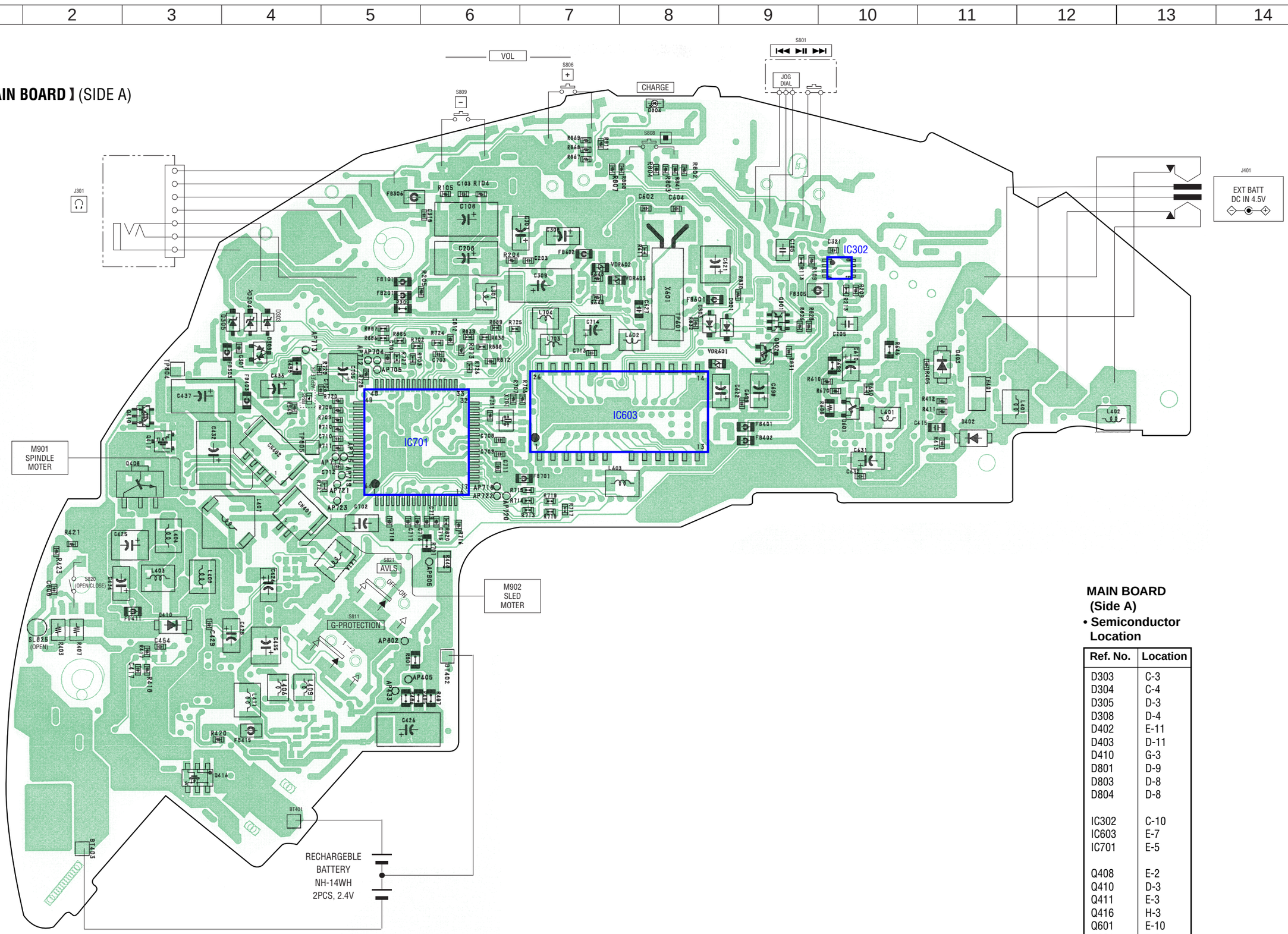


5-1. Block Diagram



5-2. Printed Wiring Board – MAIN Board (Side A) – • : Uses unleaded solder.

【**MAIN BOARD**】(SIDE A)



MAIN BOARD (Side A)

• Semiconductor Location

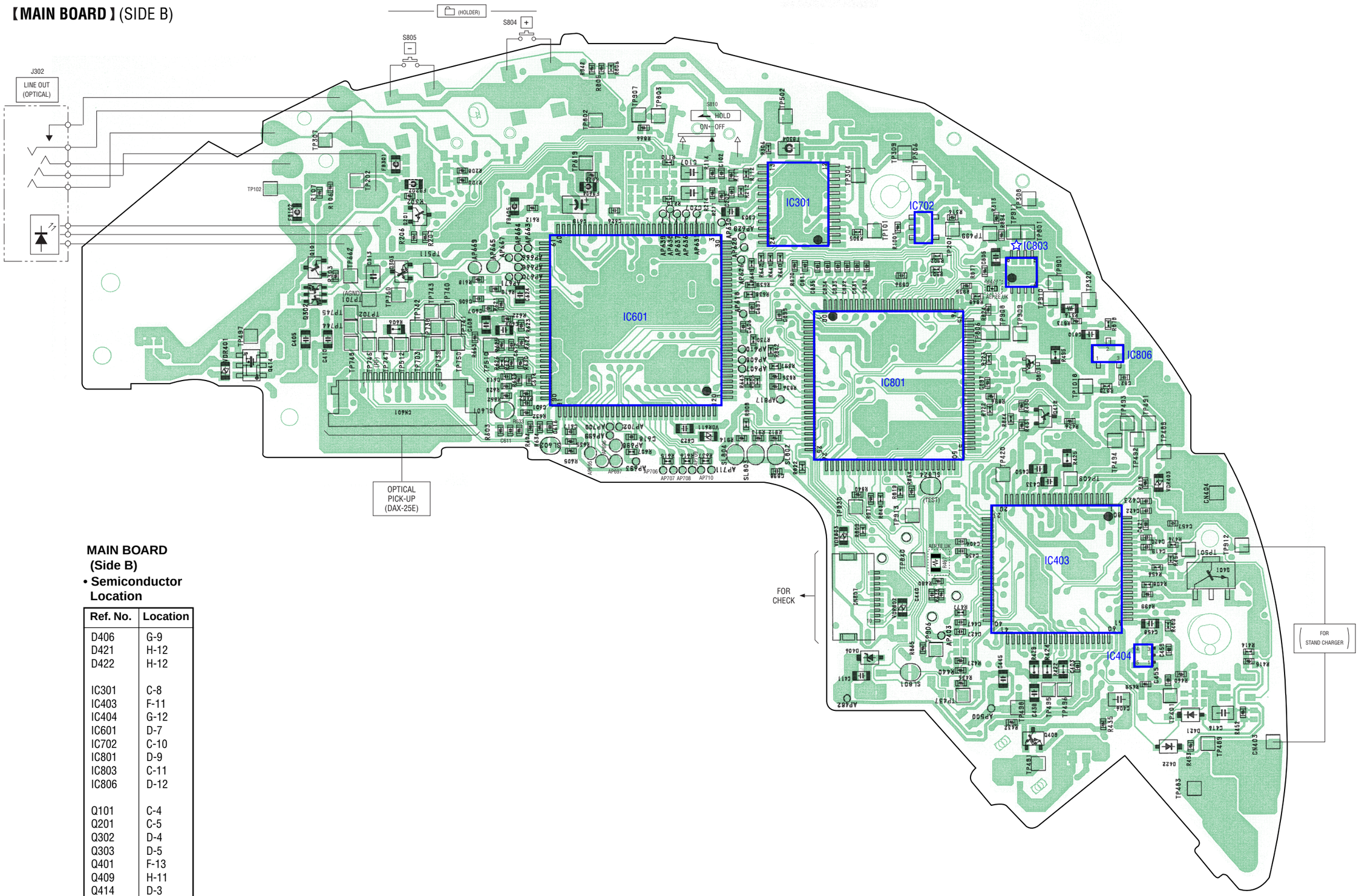
Ref. No.	Location
D303	C-3
D304	C-4
D305	D-3
D308	D-4
D402	E-11
D403	D-11
D410	G-3
D801	D-9
D803	D-8
D804	D-8
IC302	C-10
IC603	E-7
IC701	E-5
Q408	E-2
Q410	D-3
Q411	E-3
Q416	H-3
Q601	E-10
Q801	C-9
Q802	D-9

5-3. Printed Wiring Board – MAIN Board (Side B) –

• : Uses unleaded solder.

☆When IC803 is damaged, replace the MAIN board.

【MAIN BOARD】(SIDE B)



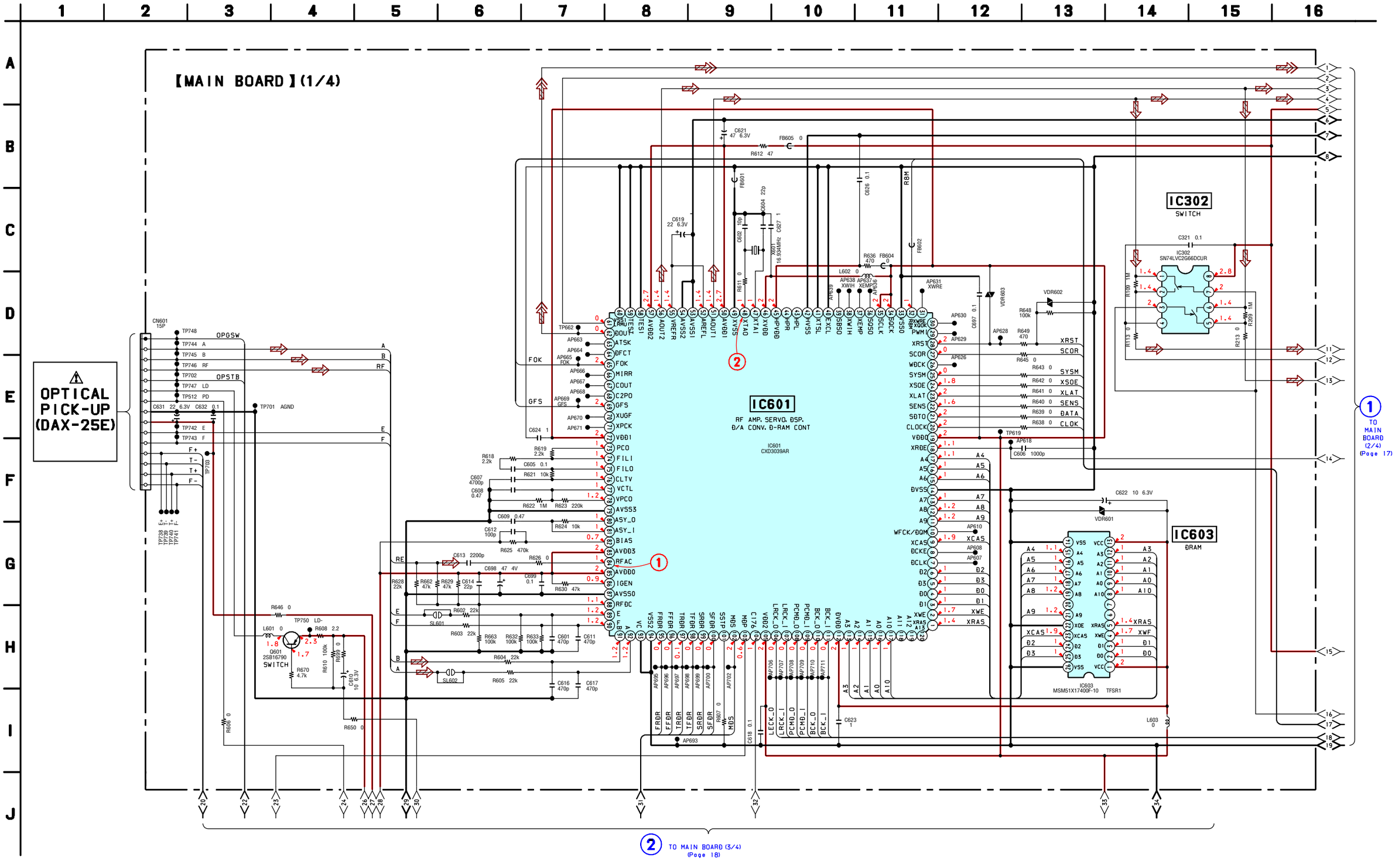
MAIN BOARD (Side B)

• Semiconductor Location

Ref. No.	Location
D406	G-9
D421	H-12
D422	H-12
IC301	C-8
IC403	F-11
IC404	G-12
IC601	D-7
IC702	C-10
IC801	D-9
IC803	C-11
IC806	D-12
Q101	C-4
Q201	C-5
Q302	D-4
Q303	D-5
Q401	F-13
Q409	H-11
Q414	D-3
Q418	E-11
Q803	D-11

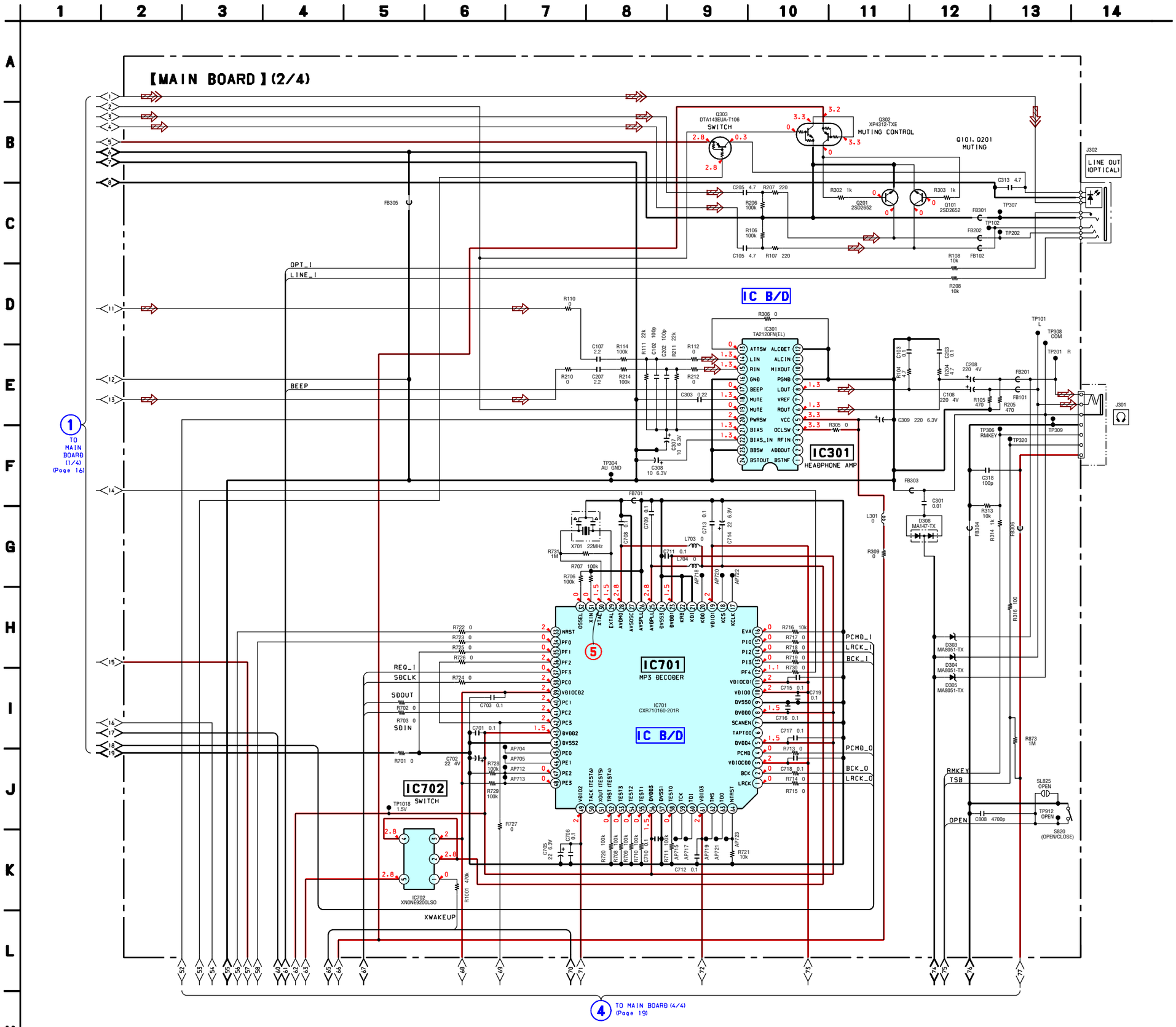
5-4. Schematic Diagrams – MAIN Board (1/4) –

• See page 12 for Waveforms.

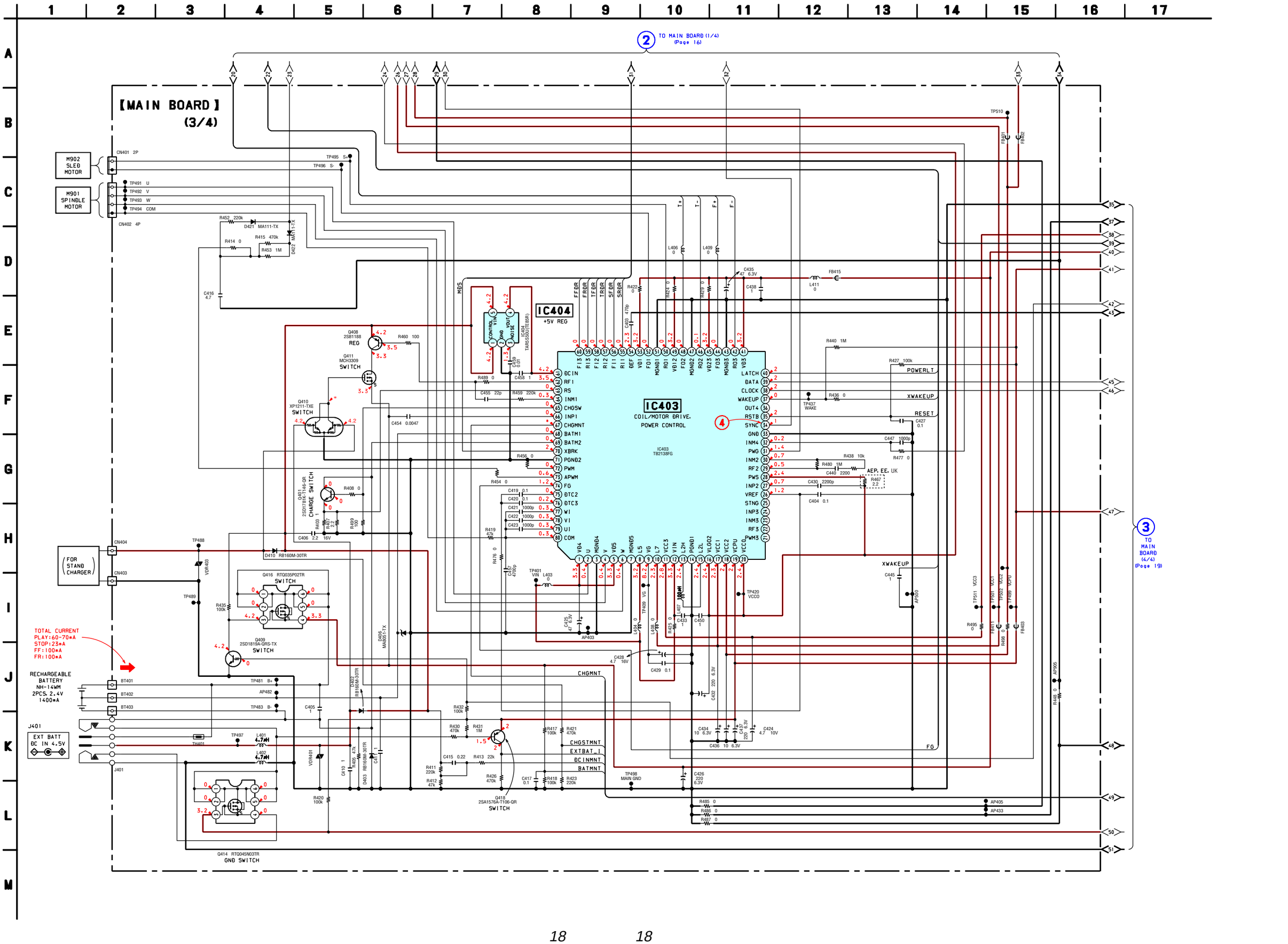


5-5. Schematic Diagrams – MAIN Board (2/4) –

• See page 12 for Waveform. • See page 20 for IC Block Diagrams.



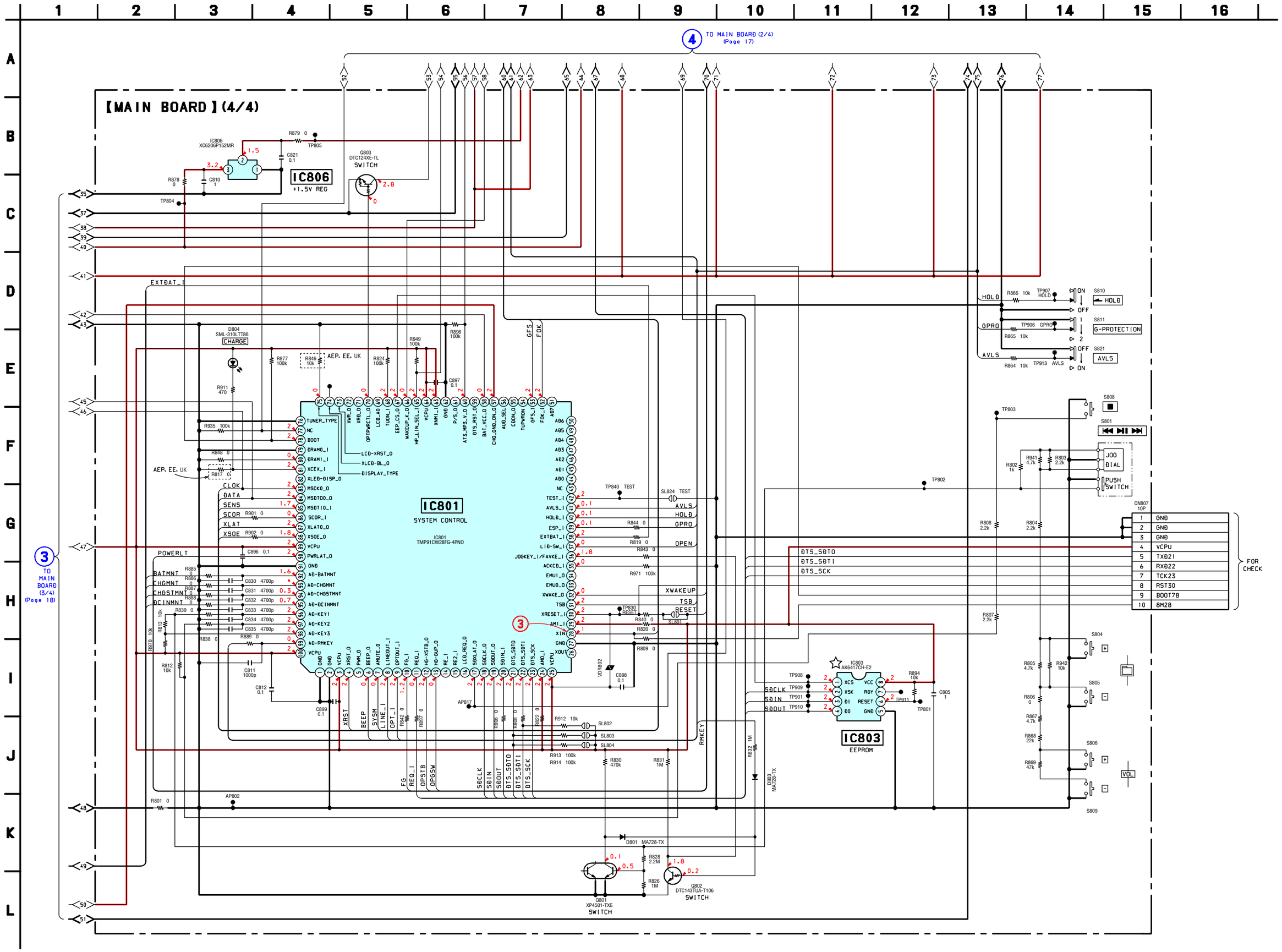
5-6. Schematic Diagrams – MAIN Board (3/4) – • See page 12 for Waveform.



5-7. Schematic Diagrams – MAIN Board (4/4) –

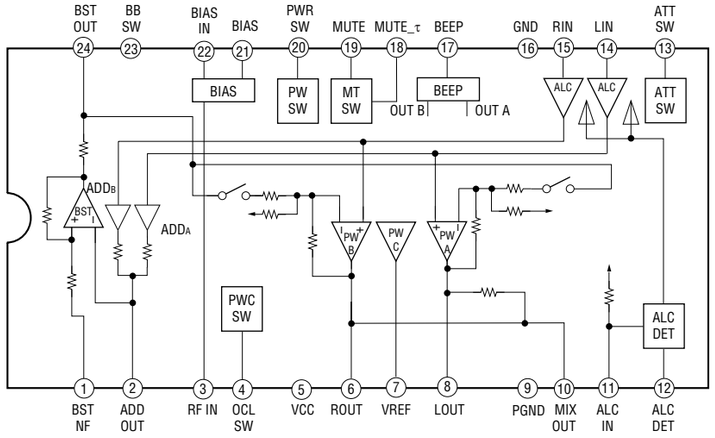
• See page 12 for Waveform.

☆When IC803 is damaged, replace the MAIN board.

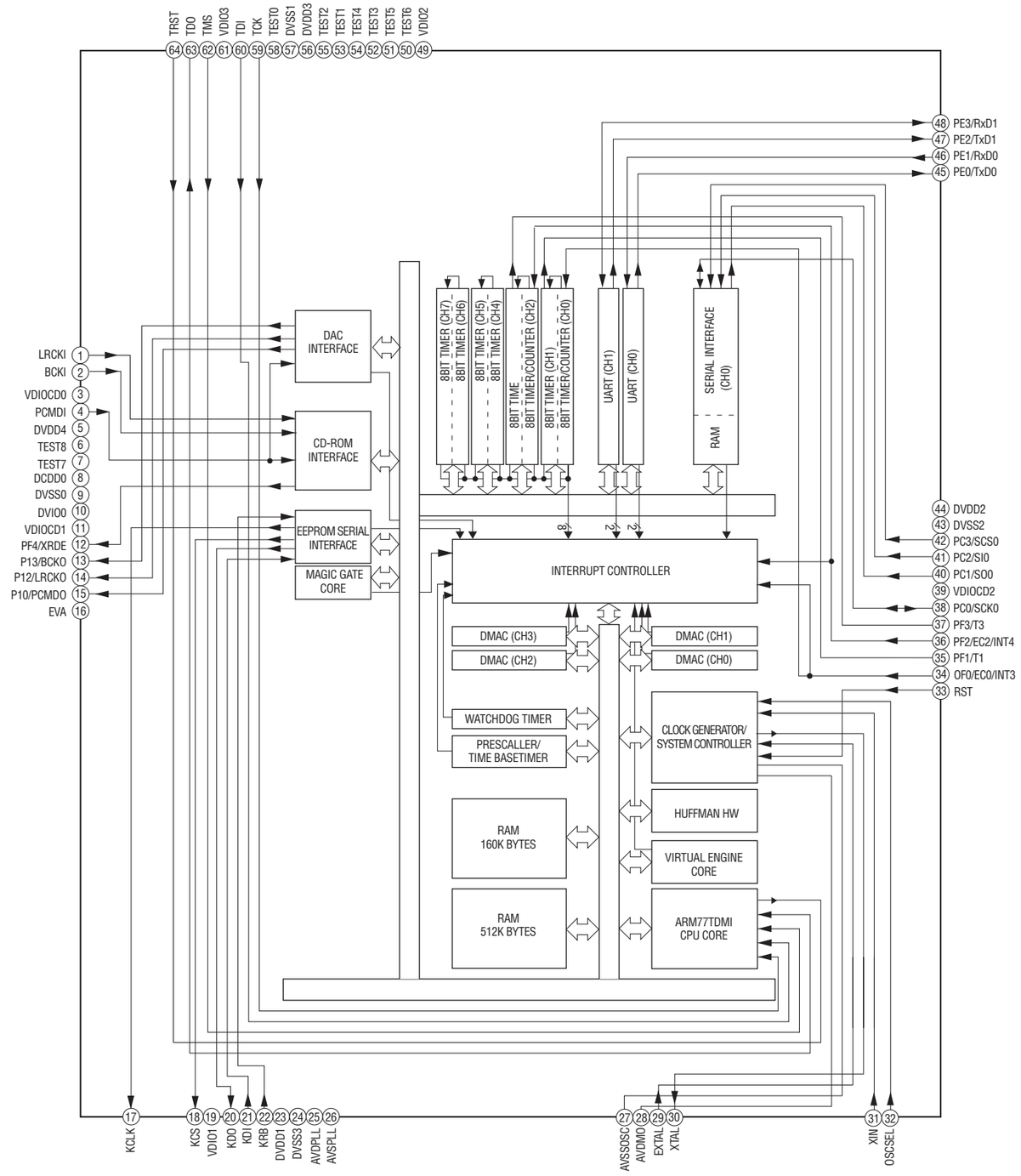


5-8. IC Block Diagrams

IC301 TA2120FN (EL)



IC701 CXR710160-210R



5-9. IC Pin Function Descriptions

• IC601 CXD3039AR
(RF AMP, DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, D-RAM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	XRAS	O	Row address strobe signal output to the D-RAM
2	XWE	O	Data input enable signal output to the D-RAM
3 to 6	D1, D0, D3, D2	I/O	Two-way data bus with the D-RAM
7	DCLK	O	Not used
8	DCKE	O	Not used
9	XCAS	O	Column address strobe signal output to the D-RAM
10	WFCK	O	WFCK signal output terminal Not used
11 to 13	A9 to A7	O	Address signal output to the D-RAM
14	DVSS	—	Ground terminal (for D-RAM interface)
15 to 17	A6 to A4	O	Address signal output to the D-RAM
18	XRDE	I	D-RAM read enable signal input terminal Not used
19	VDD0	—	Power supply terminal (digital system)
20	CLOCK	I	Serial data transfer clock signal input from the system controller
21	SDTO	I	Serial data input from the system controller
22	SENS	O	Serial data output to the system controller
23	XLAT	I	Serial data latch pulse signal input from the system controller
24	XSOE	I	Serial data output enable signal input from the system controller
25	SYSM	I	Analog muting on/off control signal input from the system controller “H”: muting on
26	WDCK	O	GRSCOR signal output to the system controller
27	SCOR	O	Subcode sync (S0+S1) detection signal output to the system controller
28	XRST	I	Reset signal input from the system controller “L”: reset
29	PWMI	I	Spindle motor external control signal input terminal Not used
30	XQOK	I	Subcode Q OK signal input terminal Not used
31	XWRE	I	D-RAM write enable signal input terminal Not used
32	R8M	O	System clock output to the system controller
33	VSS0	—	Ground terminal (digital system)
34	SQCK	I	SQSO readout clock signal input terminal Not used
35	SCLK	I	SENS serial data read clock signal input terminal Not used
36	SQSO	O	CD text data output terminal Not used
37	XEMP	O	D-RAM read prohibition signal output terminal Not used
38	XWIH	O	D-RAM write prohibition signal output terminal Not used
39	SBSO	O	Subcode P to W serial data output terminal Not used
40	EXCK	O	SQSO readout clock signal output terminal Not used
41	XTSL	I	Input terminal for the system clock frequency setting “L”: 16.9344 MHz, “H”: 33.8688MHz (fixed at “L” in this set)
42	HVSS	—	Ground terminal (for headphone)
43	HPL	O	PDM signal output for L-ch headphone to the headphone amplifier
44	HPR	O	PDM signal output for R-ch headphone to the headphone amplifier
45	HPVDD	—	Power supply terminal (for headphone)
46	XVDD	—	Power supply terminal (for master clock)
47	XTAI	I	System clock input terminal (16.9344 MHz)
48	XTAO	O	System clock output terminal (16.9344 MHz)
49	XVSS	—	Ground terminal (for master clock)
50	AVDD1	—	Power supply terminal (analog system)
51	AOUT1	O	L-ch analog audio signal output
52	VREFL	O	L-ch reference voltage output terminal

Pin No.	Pin Name	I/O	Description
53, 54	AVSS1, AVSS2	—	Ground terminal (analog system)
55	VREFR	O	R-ch reference voltage output terminal
56	AOUT2	O	R-ch analog audio signal output
57	AVDD2	—	Power supply terminal (analog system)
58	TES1	I	Input terminal for the test (normally: fixed at “L”)
59	TEST	I	Input terminal for the test (normally: fixed at “L”)
60	VSS1	—	Ground terminal (digital system)
61	LRMU	O	Muting on/off control signal output to the audio line and the headphone amplifier “H”: muting on
62	DOUT	O	Digital audio signal output
63	ATSK	I/O	Input/output terminal for anti-shock Not used
64	DFCT	I/O	Defect signal input/output terminal Not used
65	FOK	O	Focus OK signal output to the system controller “L”: NG, “H”: OK
66	MIRR	I/O	Defect signal input/output terminal Not used
67	COUT	I/O	Numbers of track counted signal input/output terminal Not used
68	C2PO	O	C2PO signal output terminal Not used
69	GFS	O	GFS signal output terminal Not used
70	XUGF	O	XUGF signal output terminal Not used
71	XPCK	O	XPCK signal output terminal Not used
72	VDD1	—	Power supply terminal (digital system)
73	PCO	O	Charge pump output for master PLL
74	FILI	I	Filter input for master PLL
75	FILO	O	Filter output for master PLL
76	CLTV	I	VCO1 control voltage input terminal for multiplier
77	VCTL	I	VCO2 control voltage input terminal for broad-band EFM PLL
78	VPCO	O	Charge pump output terminal for broad-band EFM PLL
79	AVSS3	—	Ground terminal (analog system)
80	ASYO	O	EFM full-swing output terminal
81	ASYI	I	Asymmetry comparator voltage input terminal
82	BIAS	I	Asymmetry circuit constant current input terminal
83	AVDD3	—	Power supply terminal (analog system)
84	RFAC	I	EFM signal input from the optical pick-up
85	AVDD0	—	Power supply terminal (analog system)
86	IGEN	I	Stabilized current input for operational amplifiers
87	AVSS0	—	Ground terminal (analog system)
88	RFDC	I	RF signal input from the optical pick-up
89	E	I	E signal input from the optical pick-up
90	F	I	F signal input from the optical pick-up
91	B	I	B signal input from the optical pick-up
92	A	I	A signal input from the optical pick-up
93	VC	I	Middle point voltage input terminal Not used
94	VSS3	—	Ground terminal (digital system)
95	FRDR	O	Focus servo drive signal (–) output to the TB2130AF
96	FFDR	O	Focus servo drive signal (+) output to the TB2130AF
97	TRDR	O	Tracking servo drive signal (–) output to the TB2130AF
98	TFDR	O	Tracking servo drive signal (+) output to the TB2130AF
99	SRDR	O	Sled servo drive signal (–) output to the TB2130AF

Pin No.	Pin Name	I/O	Description
100	SFDR	O	Sled servo drive signal (+) output to the TB2130AF
101	SSTP	I	Disc inner position detection signal input terminal Not used
102	MDS	O	Spindle motor drive signal output to the spindle motor driver
103	MDP	O	Spindle motor servo control signal output to the spindle motor driver
104	C176	O	176.4 kHz clock signal output to the power control and spindle motor driver
105	VDD2	—	Power supply terminal (digital system)
106	LRCK	O	L/R sampling clock signal (44.1 kHz) output terminal
107	LRCKI	I	L/R sampling clock signal (44.1 kHz) input terminal
108	PCMD	O	Serial data output terminal
109	PCMDI	I	Serial data input terminal
110	BCKO	O	Bit clock signal (2.8224 MHz) output terminal
111	BCKI	I	Bit clock signal (2.8224 MHz) input terminal
112	DVDD	—	Power supply terminal (for D-RAM interface)
113 to 117	A3 to A0, A10	O	Address signal output to the D-RAM
118 to 120	A11 to A13	O	Address signal output terminal to the D-RAM Not used

• IC801 TMP91CW28FG-4PNO

Pin No.	Pin Name	I/O	Description
1	GND	—	Reference voltage terminal (A/D converter)
2	GND	—	Ground terminal (A/D converter)
3	VCPU	—	Power supply terminal (A/D converter)
4	XRST_O	O	Reset signal output to the DSP (IC601)
5	PWM_O	O	Not used (open)
6	BEEP_O	O	BEEP signal output
7	AMUTE_O	O	Muting signal output to the DSP (IC601)
8	LINEOUT_I	I	Line plug in detection signal input (“H” : line plug in)
9	OPTOUT_I	I	Optical plug in detection signal input (“H” : optical plug in)
10	FG_I	I	FG (3 phase drive) signal input from the power control (IC403)
11	REQ_I	I	Request signal input from the decoder (IC701)
12	HG-XSTB_O	O	HG sleep mode signal output to the optical-pickup
13	HG-GUP_O	O	HG gain up signal output to the optical-pickup
14	RE1_I	I	Not used (open)
15	RE2_I	I	Not used (open)
16	LCD_REQ_O	O	Not used (open)
17	SDXLAT_O	O	Serial data latch signal output to the decoder (IC701)
18	SDCLK_O	O	Clock output to the decoder (IC701)
19	SDOUT_O	O	Serial data output to the decoder (IC701)
20	SDIN_I	I	Serial data input from the decoder (IC701)
21	DTS_SDTO	O	Not used
22	DTS_SDTI	I	Not used
23	DTS_SCK	O	Not used
24	AM0_I	I	Not used (fixed at “H”)
25	VCPU	—	Power supply terminal
26	XOUT	O	Clock output (not used)
27	GND	—	Ground terminal
28	XIN	I	Clock input
29	AM1_I	I	Not used (fixed at “H”)
30	XRESET_I	I	Reset signal input (“L” : reset)
31	TSB	I/O	Data input/output from/to the remote control
32	XWAKE_O	O	Wake signal output to the power control (IC403) (“L” : running)
33	EMU0_O	O	Not used (open)
34	EMU1_O	O	Not used (open)
35	ACKCD_I	I	Not used (fixed at “L”)
36	JOGKEY_I/FAVKEY_I	I	Key signal input from the jog key or the remote control key
37	LID-SW_I	I	Lid open/close detection signal input (“H” : lid open)
38	EXTBAT_I	I	External battery in detection signal input (“H” : external battery in)
39	ESP_I	I	G-protection switch detection signal input (“H” : G-protection 2)
40	HOLD_I	I	HOLD switch detection signal input (“H” : HOLD on)
41	AVLS_I	I	AVLS switch detection signal input (“H” : AVLS on)
42	TEST_I	I	Test mode setting terminal (“L” : test mode)
43	NC	—	Not used (open)
44 to 51	AD0 to AD7	I/O	Not used (open)
52	FOK_I	I	FOK signal input from the DSP (IC601)
53	GFS_I	I	GFS signal input from the DSP (IC601)
54	TUPWRON_O	O	Not used (open)
55	CDON_O	O	Not used (open)
56	AUD_SEL_O	O	Not used (open)
57	CHG_GND_ON_O	O	Charge ground switch control signal output

Pin No.	Pin Name	I/O	Description
58	BAT_VCC_O	O	Battery power switch control signal output
59	DTS_RST_O	O	Not used (open)
60	AT3_MP3_V_O	O	Reset signal output to the decoder (IC701)
61	P/S_O	O	Not used (open)
62	GND	—	Ground terminal
63	XNMI_I	I	Not used (fixed at “H”)
64	VCPU	—	Power supply terminal
65	HP_LIN_SEL_O	O	Headphone or line out selection control signal output
66	WAKEUP_K_O	O	Wakeup signal output to the decoder (IC701)
67	EEP_CS_O	O	Chip select signal output to the EEPROM (IC803)
68	TUON_I	I	Not used (fixed at “H”)
69	LCD_A0	O	Not used (open)
70	OPTPWRCTL_O	O	Optical output power supply control signal output
71	XRD_O	O	Not used (open)
72	XWR_O	O	Not used (open)
73	LCD-XRST_O	O	Not used (open)
74	XLCD-BL_O	O	Not used (open)
75	DISPLAY_TYPE	I	Not used (open)
76	TUNER_TYPE	I	Tuner model setting terminal (“H” : tuner model) (fixed at “L”)
77	HP_PWRSW	O	Headphone amplifier enable signal output (“H” : enable)
78	BOOT	I	BOOT signal input
79	DRAM0_I	I	DRAM setting terminal (“H” : 4M, “L” : 16M)
80	DRAM1_I	I	Not used (fixed at “L”)
81	XCEX_I	I	Not used (open)
82	XLED-DISP_O	O	LED control signal output
83	MSCK0_O	O	Clock signal output to the DSP (IC601) and the power control (IC403)
84	MSDTO0_O	O	Serial data output to the DSP (IC601) and the power control (IC403)
85	MSDTI0_I	I	SENS signal input from the DSP (IC601)
86	SCOR_I	I	SCOR signal input from the DSP (IC601)
87	XLAT0_O	O	Latch signal output to the DSP (IC601)
88	XSOE_O	O	Serial data output enable signal output to the DSP (IC601)
89	VCPU	—	Power supply terminal
90	PWRLAT_O	O	Data latch signal output to the power control (IC403)
91	GND	—	Ground terminal
92	AD-BATMNT	I	Batttery monitoring signal input
93	AD-CHGMNT	I	Charge monitoring signal input
94	AD-CHGSTMNT	I	Charge stand monitoring signal input
95	AD-DCINMNT	I	DC in monitoring signal input
96	AD-KEY1	I	Key 1 signal A/D input
97	AD-KEY2	I	Key 2 signal A/D input
98	AD-KEY3	I	Key 3 signal A/D input
99	AD-RMKEY	I	Remote control key signal A/D input
100	VCPU	—	Reference voltage terminal (A/D converter)

SECTION 6
EXPLODED VIEWS

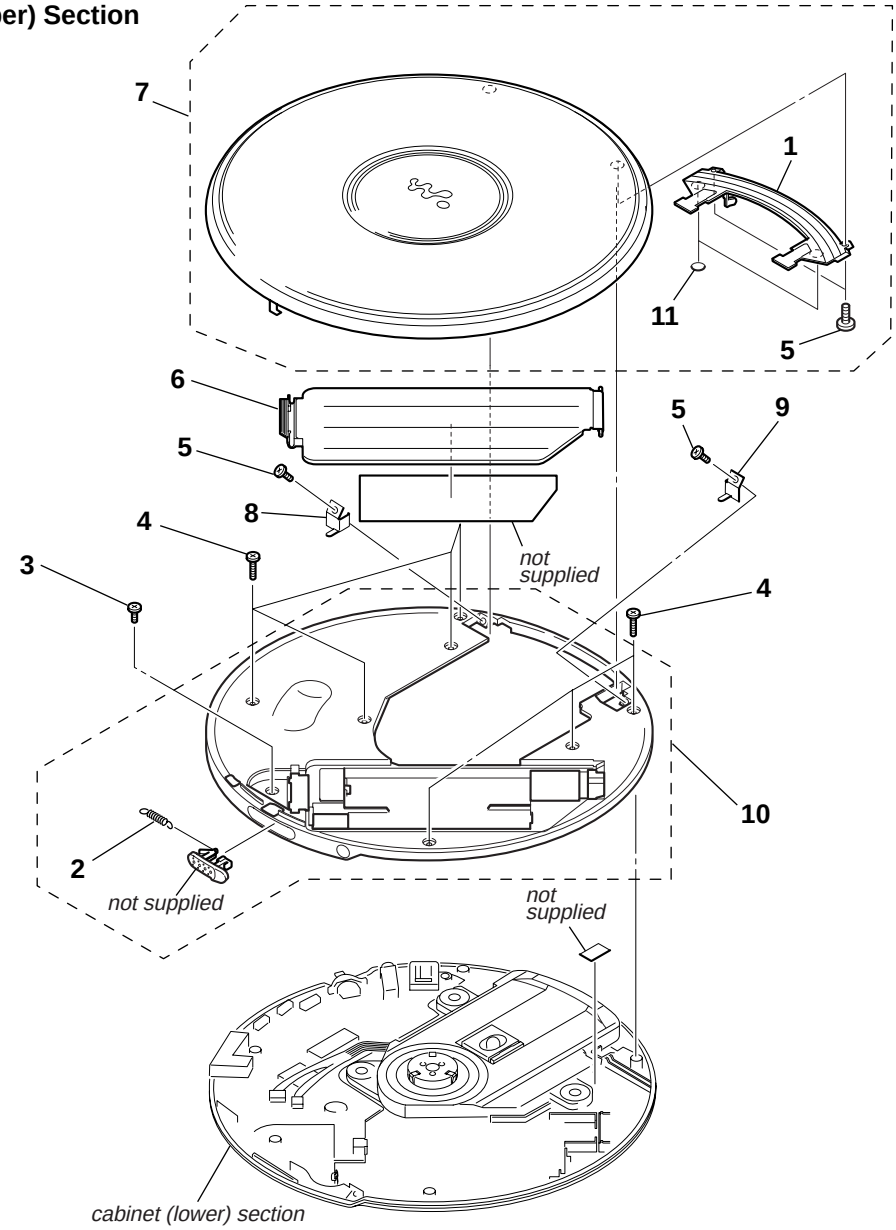
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- Accessories are given in the last of electrical parts list.
- Abbreviation
  AUS : Australian model
  CND: Canadian model
  CH : Chinese model
  E18 : 100-230 V AC area in E model
  EE : East European model
  HK : Hong Kong model
  JE : Tourist model
  KR : Korean model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

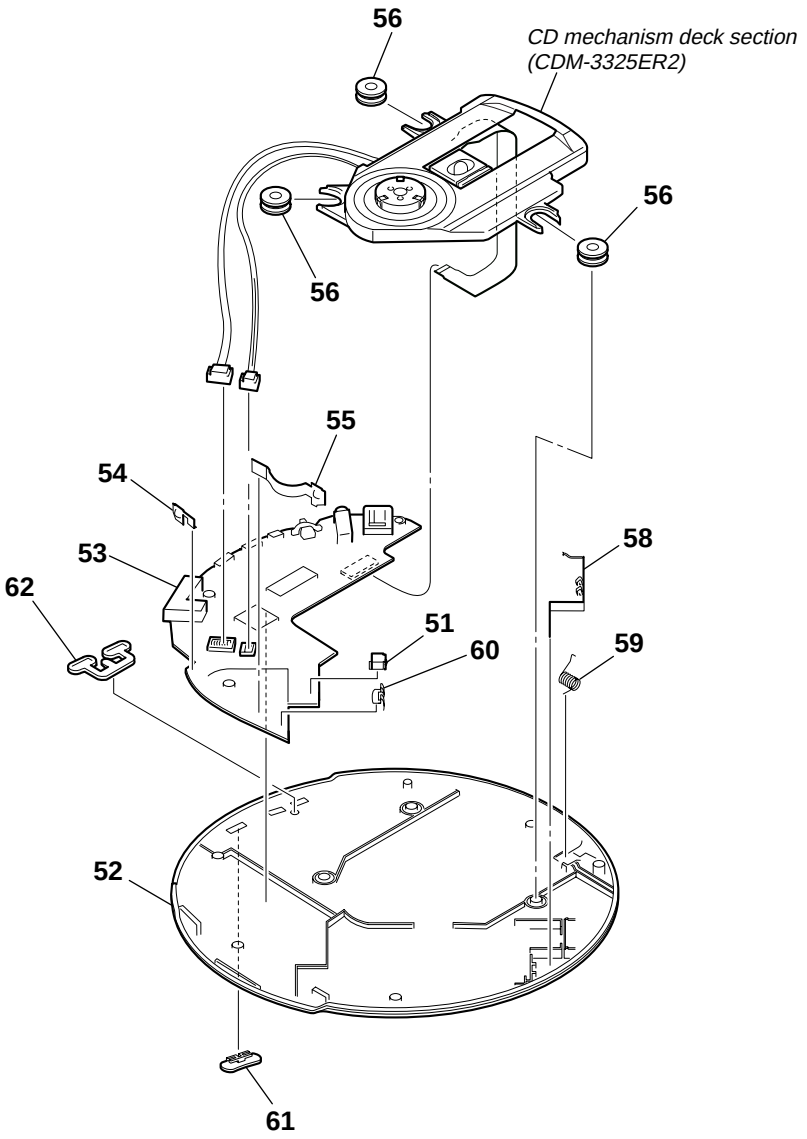
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. Cabinet (upper) Section



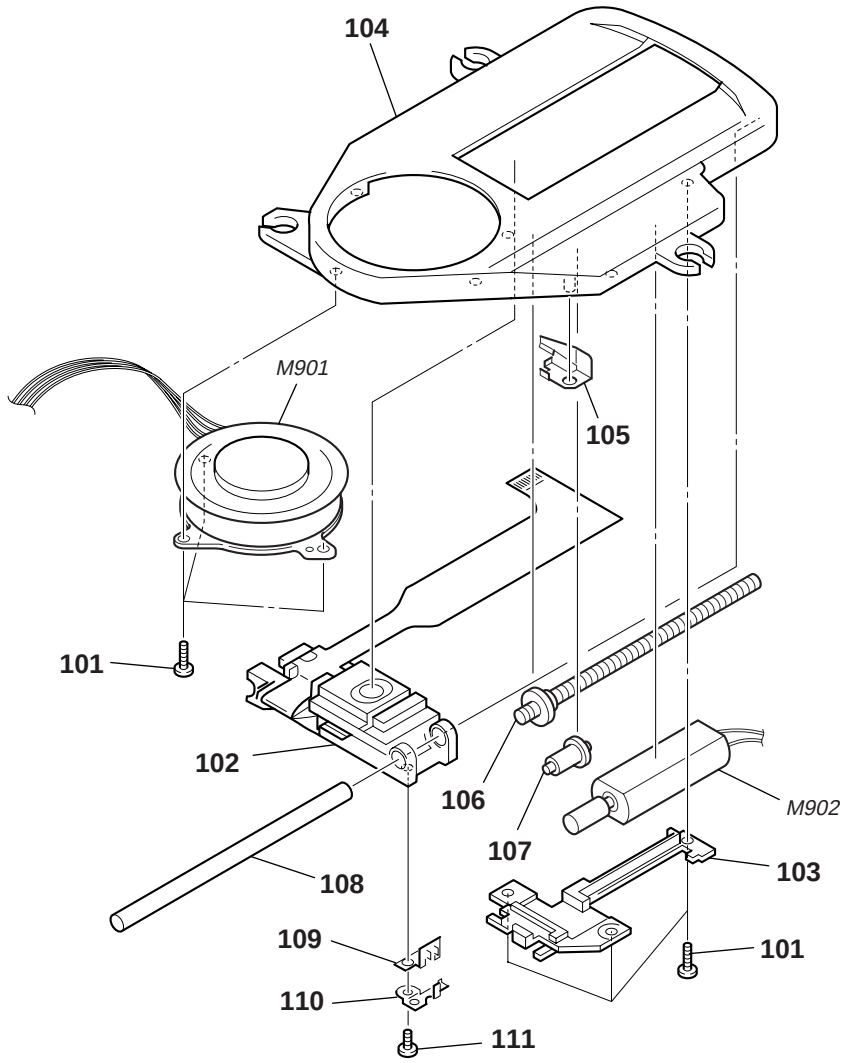
Ref. No.	Part No.	Description	Remarks
1	3-252-112-01	PLATE, FULCRUM (NE1)	
2	3-233-998-01	SPRING, TENSION	
3	4-908-792-01	SCREW (B2)	
4	4-908-792-61	SCREW (B2)	
5	3-234-449-27	SCREW (M1.4) (NE1)	
6	X-3383-230-1	LID ASSY, BATTERY CASE (NE9:JE)	
6	X-3383-231-1	LID ASSY, BATTERY CASE (NE1/NE9:CND,AEP,EE,E18,AUS,CH)	
6	X-3383-232-1	LID ASSY, BATTERY CASE (NE9:HK,KR,TW)	
7	X-3383-572-1	LID UPPER ASSY (S) (SILVER) (NE9)	
7	X-3383-573-1	LID UPPER ASSY (B) (BLUE) (NE9)	
7	X-3383-811-1	LID UPPER ASSY (NE1)	
8	3-245-864-01	GUIDE (L)	
9	3-245-865-02	GUIDE (R)	
10	X-3382-570-1	CABINET (UPPER) SUB ASSY (S) (SILVER)	
10	X-3383-806-1	CABINET (UPPER) SUB ASSY (ML) (BLUE)	(NE9)
11	3-253-773-01	SPACER (DISC) (NE1)	

6-2. Cabinet (lower) Section



Ref. No.	Part No.	Description	Remarks
51	3-245-312-01	BATTERY TERMINAL (+)	
52	X-3383-517-1	CABINET ASSY, LOWER	(NE1:US,CND,UK,TW,JE)
52	X-3383-519-1	CABINET (LOWER) ASSY (NE1:HK,KR,AUS,CH)	
52	X-3383-520-1	CABINET (LOWER) ASSY (NE1:AEP,EE,E18)	
52	X-3383-598-1	CABINET ASSY (S), LOWER (SILVER)	(NE9:KR,TW,JE)
52	X-3383-608-1	CABINET ASSY (S), LOWER (SILVER)	(NE9:KR,TW,JE)
52	X-3383-609-1	CABINET ASSY (S), LOWER (SILVER)	(NE9:CND,E18,HK,AUS,CH)
52	X-3383-610-1	CABINET ASSY (ML), LOWER (BLUE)	(NE9:E18,HK,AUS,CH)
52	X-3383-611-1	CABINET ASSY (S), LOWER (SILVER)	(NE9:AEP,EE)
52	X-3383-612-1	CABINET ASSY (ML), LOWER (BLUE)	(NE9:AEP,EE)
53	X-3383-969-1	MAIN BOARD, COMPLETE	(EXCEPT AEP,EE,UK)
53	X-3383-970-1	MAIN BOARD, COMPLETE (AEP,EE,UK)	
54	3-233-988-01	TERMINAL BOARD (+), CHARGE	
55	3-245-837-01	TERMINAL BOARD (-), CHARGE	
56	3-245-331-02	INSULATOR	
58	3-245-863-02	TERMINAL BOARD (RELAY),BATTERY	
59	3-245-866-01	SPRING (UPPER LID) (NE1)	
59	3-248-705-01	SPRING(LID UPPER-2768) (NE9)	
60	3-246-403-01	TERMINAL BOARD (-), BATTERY	
61	3-252-111-01	KNOB (HOLD)	
62	3-252-116-01	BUTTON (FOLDER)	

6-3. CD Mechanism Deck Section (CDM-3325ER2)



Ref. No.	Part No.	Description	Remarks
101	3-318-203-61	SCREW (B1.7X4), TAPPING	
⚠102	X-3380-950-1	OPTICAL PICK-UP (DAX-25E)	
103	3-221-473-01	COVER, GEAR	
104	3-221-472-02	CHASSIS	
105	3-221-474-01	SPRING, SLED	
106	A-3331-663-A	FEED ASSY, SCREW	
107	3-221-268-01	GEAR (B)	
108	3-221-475-01	SHAFT, STANDARD	
109	3-222-298-01	RACK	
110	3-222-299-01	SPRING, RACK RETAINER	
111	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
M901	A-3608-777-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
M902	A-3174-850-A	MOTOR ASSY, SLED (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviation
  AUS : Australian model
  CND: Canadian model
  CH : Chinese model
  E18 : 100-230 V AC area in E model
  HK : Hong Kong model
  JE : Tourist model
  KR : Korean model
  TW : Taiwan model
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
	X-3383-969-1	MAIN BOARD, COMPLETE (EXCEPT AEP,EE,UK)			
		**********			
	X-3383-970-1	MAIN BOARD, COMPLETE (AEP,EE,UK)			
		**********			
		< CAPACITOR >			
C102	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C103	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C105	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C107	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C108	1-125-899-11	TANTAL. CHIP	220uF	20.00%	4V
C202	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C203	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C205	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C207	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C208	1-125-899-11	TANTAL. CHIP	220uF	20.00%	4V
C301	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C303	1-115-467-11	CERAMIC CHIP	0.22uF	10.00%	10V
C307	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C308	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C309	1-128-829-91	TANTAL. CHIP	220uF	20%	6.3V
C313	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C318	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C321	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C403	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C404	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C405	1-115-156-11	CERAMIC CHIP	1uF		10V
C406	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C410	1-115-156-11	CERAMIC CHIP	1uF		10V
C411	1-115-156-11	CERAMIC CHIP	1uF		10V
C415	1-115-467-11	CERAMIC CHIP	0.22uF	10.00%	10V
C416	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C417	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C419	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C420	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C421	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C422	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C423	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C424	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C425	1-110-569-11	TANTAL. CHIP	47uF	20.00%	6.3V
C426	1-128-829-91	TANTAL. CHIP	220uF	20%	6.3V
C427	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C428	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C429	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C430	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C432	1-128-829-91	TANTAL. CHIP	220uF	20%	6.3V
C433	1-115-156-11	CERAMIC CHIP	1uF		10V
C434	1-165-851-91	TANTAL. CHIP	10uF	20%	6.3V
C435	1-110-569-11	TANTAL. CHIP	47uF	20.00%	6.3V
C436	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C437	1-128-829-91	TANTAL. CHIP	220uF	20%	6.3V
C438	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C440	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C445	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C447	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C450	1-115-156-11	CERAMIC CHIP	1uF		10V
C454	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C455	1-164-858-11	CERAMIC CHIP	22PF	5.00%	50V
C457	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C458	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C459	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C601	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C602	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C604	1-164-858-11	CERAMIC CHIP	22PF	5.00%	50V
C605	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C606	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C607	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C608	1-117-863-11	CERAMIC CHIP	0.47uF	10.00%	6.3V
C609	1-117-863-11	CERAMIC CHIP	0.47uF	10.00%	6.3V
C610	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C611	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C612	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C613	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C614	1-164-858-11	CERAMIC CHIP	22PF	5.00%	50V
C616	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C617	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C618	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C619	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C621	1-110-569-11	TANTAL. CHIP	47uF	20.00%	6.3V
C622	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C623	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C624	1-115-156-11	CERAMIC CHIP	1uF		10V
C626	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C627	1-115-156-11	CERAMIC CHIP	1uF		10V
C631	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C632	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C697	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C698	1-131-862-91	TANTAL. CHIP	47uF	20%	4V
C699	1-107-820-11	CERAMIC CHIP	0.1uF		16V

MAIN

Ref. No.	Part No.	Description			Remarks
C701	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C702	1-104-847-11	TANTAL. CHIP	22uF	20.00%	4V
C703	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C705	1-104-852-11	TANTAL. CHIP	22uF	20.00%	6.3V
C706	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C708	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C709	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C710	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C711	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C712	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C713	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C714	1-104-852-11	TANTAL. CHIP	22uF	20.00%	6.3V
C715	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C716	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C717	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C718	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C719	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C805	1-115-156-11	CERAMIC CHIP	1uF		10V
C808	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C810	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C811	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C812	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C821	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C830	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C831	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C832	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C833	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C834	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C835	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C896	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C897	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C898	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C899	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN401	1-784-342-21	HOUSING, CONNECTOR 2P			
* CN402	1-785-877-21	HOUSING, CONNECTOR 4P			
CN601	1-573-924-11	CONNECTOR, FFC/FPC (ZIF) 15P			
		< DIODE >			
D303	8-719-422-37	DIODE MA8051-TX			
D304	8-719-422-37	DIODE MA8051-TX			
D305	8-719-422-37	DIODE MA8051-TX			
D308	8-719-421-33	DIODE MA147-TX			
D402	8-719-081-34	DIODE RB160M-30TR			
D403	8-719-081-34	DIODE RB160M-30TR			
D406	8-719-422-37	DIODE MA8051-TX			
D410	8-719-081-34	DIODE RB160M-30TR			
D421	8-719-404-50	DIODE MA111-TX			
D422	8-719-404-50	DIODE MA111-TX			
D801	8-719-421-27	DIODE MA728-TX			
D803	8-719-421-27	DIODE MA728-TX			
D804	8-719-064-07	DIODE SML-310LTT86 (CHARGE)			
		< FERRITE BEAD >			
FB101	1-500-234-22	FERRITE	0uH		
FB102	1-500-234-22	FERRITE	0uH		
FB201	1-500-234-22	FERRITE	0uH		
FB202	1-500-234-22	FERRITE	0uH		

Ref. No.	Part No.	Description		Remarks
FB301	1-500-234-22	FERRITE	0uH	
FB303	1-500-234-22	FERRITE	0uH	
FB304	1-414-813-21	FERRITE	0uH	
FB305	1-414-813-21	FERRITE	0uH	
FB306	1-414-813-21	FERRITE	0uH	
FB401	1-414-760-21	FERRITE	0uH	
FB402	1-414-760-21	FERRITE	0uH	
FB403	1-414-760-21	FERRITE	0uH	
FB411	1-414-760-21	FERRITE	0uH	
FB415	1-216-295-91	SHORT CHIP	0	
FB601	1-414-760-21	FERRITE	0uH	
FB602	1-414-760-21	FERRITE	0uH	
FB604	1-216-864-91	SHORT CHIP	0	
FB605	1-216-864-91	SHORT CHIP	0	
FB701	1-414-760-21	FERRITE	0uH	
		< IC >		
IC301	8-759-522-87	IC TA2120FN(EL)		
* IC302	6-703-107-01	IC SN74LVC2G66DCUR		
IC403	6-703-902-01	IC TB2138FG		
IC404	6-704-186-01	IC TAR5S50U(TE85R)		
IC601	8-752-420-71	IC CXD3039AR		
IC603	6-702-737-01	IC MSM51X17400F-10TFSR1		
IC701	8-752-935-69	IC CXR710160-201R		
IC702	6-550-559-01	TRANSISTOR XN0NE9200LS0		
IC801	6-802-813-01	IC TMP91CW28FG-4PNO		
☆ IC803	- - - - - - - - - -	IC AK6417CH-E2 (not supplied)		
IC806	6-703-916-01	IC XC6206P152MR		
		< JACK >		
J301	1-815-088-61	JACK, HEADPHONE (🎧)		
J302	1-816-884-11	JACK, OPTICAL OUT (LINE OUT (OPTICAL)		
J401	1-793-156-31	JACK, DC		
		< COIL >		
L301	1-400-389-21	INDUCTOR	0uH	
L401	1-400-373-21	INDUCTOR	4.7uH	
L402	1-400-373-21	INDUCTOR	4.7uH	
L403	1-400-387-21	INDUCTOR	0uH	
L404	1-400-388-21	INDUCTOR	0uH	
L406	1-400-390-21	INDUCTOR	0uH	
L407	1-456-178-21	INDUCTOR	100uH	
L408	1-400-387-21	INDUCTOR	0uH	
L409	1-400-390-21	INDUCTOR	0uH	
L411	1-400-387-21	INDUCTOR	0uH	
L601	1-400-389-21	INDUCTOR	0uH	
L602	1-400-390-21	INDUCTOR	0uH	
L603	1-400-386-21	INDUCTOR	0uH	
L703	1-400-390-21	INDUCTOR	0uH	
L704	1-400-390-21	INDUCTOR	0uH	
		< TRANSISTOR >		
Q101	6-550-364-01	TRANSISTOR	2SD2652	
Q201	6-550-364-01	TRANSISTOR	2SD2652	
Q302	8-729-429-50	TRANSISTOR	XP4312-TXE	
Q303	8-729-028-86	TRANSISTOR	DTA143EUA-T106	
Q401	8-729-921-73	TRANSISTOR	2SD1781K-T146-QR	
Q408	8-729-920-83	TRANSISTOR	2SB1188	
Q409	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX	

☆When IC803 is damaged, replace the MAIN board.

Ref. No.	Part No.	Description			Remarks
Q410	8-729-426-24	TRANSISTOR	XP1211-TXE		
Q411	8-729-055-99	TRANSISTOR	MCH3309		
Q414	6-550-355-01	TRANSISTOR	RTQ045N03TR		
Q416	6-550-354-01	TRANSISTOR	RTQ035P02TR		
Q418	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q601	8-729-054-79	TRANSISTOR	2SB16790		
Q801	8-729-427-72	TRANSISTOR	XP4501-TXE		
Q802	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q803	8-729-929-02	TRANSISTOR	DTC124XE-TL		
		< RESISTOR >			
R104	1-220-803-81	RES-CHIP	4.7	5%	1/16W
R105	1-218-949-11	RES-CHIP	470	5%	1/16W
R106	1-218-977-11	RES-CHIP	100K	5%	1/16W
R107	1-218-945-11	RES-CHIP	220	5%	1/16W
R108	1-218-965-11	RES-CHIP	10K	5%	1/16W
R109	1-218-989-11	RES-CHIP	1M	5%	1/16W
R110	1-218-990-11	SHORT CHIP	0		
R111	1-218-969-11	RES-CHIP	22K	5%	1/16W
R112	1-218-990-11	SHORT CHIP	0		
R113	1-218-990-11	SHORT CHIP	0		
R114	1-218-977-11	RES-CHIP	100K	5%	1/16W
R204	1-220-803-81	RES-CHIP	4.7	5%	1/16W
R205	1-218-949-11	RES-CHIP	470	5%	1/16W
R206	1-218-977-11	RES-CHIP	100K	5%	1/16W
R207	1-218-945-11	RES-CHIP	220	5%	1/16W
R208	1-218-965-11	RES-CHIP	10K	5%	1/16W
R209	1-218-989-11	RES-CHIP	1M	5%	1/16W
R210	1-218-990-11	SHORT CHIP	0		
R211	1-218-969-11	RES-CHIP	22K	5%	1/16W
R212	1-218-990-11	SHORT CHIP	0		
R213	1-218-990-11	SHORT CHIP	0		
R214	1-218-977-11	RES-CHIP	100K	5%	1/16W
R302	1-218-953-11	RES-CHIP	1K	5%	1/16W
R303	1-218-953-11	RES-CHIP	1K	5%	1/16W
R305	1-218-990-11	SHORT CHIP	0		
R306	1-218-990-11	SHORT CHIP	0		
R309	1-216-864-11	METAL CHIP	0	5%	1/16W
R313	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R314	1-218-953-11	RES-CHIP	1K	5%	1/16W
R315	1-216-864-11	METAL CHIP	0	5%	1/16W
R316	1-218-941-81	RES-CHIP	100	5%	1/16W
R403	1-217-671-11	METAL CHIP	1	5%	1/10W
R405	1-218-973-11	RES-CHIP	47K	5%	1/16W
R407	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R408	1-218-990-11	SHORT CHIP	0		
R411	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R412	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R413	1-218-969-11	RES-CHIP	22K	5%	1/16W
R414	1-218-990-11	SHORT CHIP	0		
R415	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R417	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R418	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R419	1-218-973-11	RES-CHIP	47K	5%	1/16W
R420	1-218-977-11	RES-CHIP	100K	5%	1/16W
R421	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R422	1-216-864-11	METAL CHIP	0	5%	1/16W
R423	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R424	1-216-864-11	METAL CHIP	0	5%	1/16W
R425	1-216-864-11	METAL CHIP	0	5%	1/16W
R426	1-218-985-11	RES-CHIP	470K	5%	1/16W
R427	1-218-977-11	RES-CHIP	100K	5%	1/16W
R429	1-216-864-11	METAL CHIP	0	5%	1/16W
R430	1-218-985-11	RES-CHIP	470K	5%	1/16W
R431	1-218-989-11	RES-CHIP	1M	5%	1/16W
R432	1-218-977-11	RES-CHIP	100K	5%	1/16W
R435	1-218-977-11	RES-CHIP	100K	5%	1/16W
R436	1-218-990-11	SHORT CHIP	0		
R438	1-218-965-11	RES-CHIP	10K	5%	1/16W
R440	1-218-989-11	RES-CHIP	1M	5%	1/16W
R448	1-216-295-91	SHORT CHIP	0		
R452	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R453	1-218-989-11	RES-CHIP	1M	5%	1/16W
R454	1-218-990-11	SHORT CHIP	0		
R456	1-218-990-11	SHORT CHIP	0		
R459	1-218-981-11	RES-CHIP	220K	5%	1/16W
R460	1-218-941-81	RES-CHIP	100	5%	1/16W
R467	1-216-789-11	METAL CHIP	2.2	5%	1/16W (AEP,EE,UK)
R476	1-218-990-11	SHORT CHIP	0		
R477	1-218-990-11	SHORT CHIP	0		
R480	1-218-989-11	RES-CHIP	1M	5%	1/16W
R485	1-216-864-11	METAL CHIP	0	5%	1/16W
R486	1-216-864-11	METAL CHIP	0	5%	1/16W
R487	1-216-864-11	METAL CHIP	0	5%	1/16W
R489	1-218-990-11	SHORT CHIP	0		
R495	1-216-864-11	METAL CHIP	0	5%	1/16W
R498	1-216-864-11	METAL CHIP	0	5%	1/16W
R499	1-218-941-81	RES-CHIP	100	5%	1/16W
R602	1-218-969-11	RES-CHIP	22K	5%	1/16W
R603	1-218-969-11	RES-CHIP	22K	5%	1/16W
R604	1-218-969-11	RES-CHIP	22K	5%	1/16W
R605	1-218-969-11	RES-CHIP	22K	5%	1/16W
R606	1-216-864-11	METAL CHIP	0	5%	1/16W
R607	1-218-990-11	SHORT CHIP	0		
R608	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R610	1-218-977-11	RES-CHIP	100K	5%	1/16W
R611	1-218-990-11	SHORT CHIP	0		
R612	1-218-937-11	RES-CHIP	47	5%	1/16W
R618	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R619	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R621	1-218-965-11	RES-CHIP	10K	5%	1/16W
R622	1-218-989-11	RES-CHIP	1M	5%	1/16W
R623	1-218-981-11	RES-CHIP	220K	5%	1/16W
R624	1-218-965-11	RES-CHIP	10K	5%	1/16W
R625	1-218-985-11	RES-CHIP	470K	5%	1/16W
R626	1-218-990-11	SHORT CHIP	0		
R628	1-218-969-11	RES-CHIP	22K	5%	1/16W
R629	1-218-973-11	RES-CHIP	47K	5%	1/16W
R630	1-218-973-11	RES-CHIP	47K	5%	1/16W
R632	1-218-977-11	RES-CHIP	100K	5%	1/16W
R633	1-218-977-11	RES-CHIP	100K	5%	1/16W
R636	1-218-949-11	RES-CHIP	470	5%	1/16W
R638	1-218-990-11	SHORT CHIP	0		
R639	1-218-990-11	SHORT CHIP	0		
R640	1-218-990-11	SHORT CHIP	0		
R641	1-218-990-11	SHORT CHIP	0		
R642	1-218-990-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remarks
R643	1-218-990-11	SHORT CHIP	0		
R645	1-218-990-11	SHORT CHIP	0		
R646	1-216-864-11	METAL CHIP	0	5%	1/16W
R648	1-218-977-11	RES-CHIP	100K	5%	1/16W
R649	1-218-949-11	RES-CHIP	470	5%	1/16W
R650	1-218-990-11	SHORT CHIP	0		
R662	1-218-973-11	RES-CHIP	47K	5%	1/16W
R663	1-218-977-11	RES-CHIP	100K	5%	1/16W
R670	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R699	1-216-864-11	METAL CHIP	0	5%	1/16W
R701	1-216-864-11	METAL CHIP	0	5%	1/16W
R702	1-218-990-11	SHORT CHIP	0		
R703	1-218-990-11	SHORT CHIP	0		
R706	1-218-977-11	RES-CHIP	100K	5%	1/16W
R707	1-218-977-11	RES-CHIP	100K	5%	1/16W
R708	1-218-977-11	RES-CHIP	100K	5%	1/16W
R709	1-218-977-11	RES-CHIP	100K	5%	1/16W
R710	1-218-977-11	RES-CHIP	100K	5%	1/16W
R711	1-218-977-11	RES-CHIP	100K	5%	1/16W
R713	1-218-990-11	SHORT CHIP	0		
R714	1-218-990-11	SHORT CHIP	0		
R715	1-218-990-11	SHORT CHIP	0		
R716	1-218-965-11	RES-CHIP	10K	5%	1/16W
R717	1-218-990-11	SHORT CHIP	0		
R718	1-218-990-11	SHORT CHIP	0		
R719	1-218-990-11	SHORT CHIP	0		
R720	1-218-977-11	RES-CHIP	100K	5%	1/16W
R721	1-218-965-11	RES-CHIP	10K	5%	1/16W
R722	1-218-990-11	SHORT CHIP	0		
R723	1-218-990-11	SHORT CHIP	0		
R724	1-218-990-11	SHORT CHIP	0		
R725	1-218-990-11	SHORT CHIP	0		
R726	1-218-990-11	SHORT CHIP	0		
R727	1-218-990-11	SHORT CHIP	0		
R728	1-218-977-11	RES-CHIP	100K	5%	1/16W
R729	1-218-977-11	RES-CHIP	100K	5%	1/16W
R730	1-218-990-11	SHORT CHIP	0		
R731	1-218-989-11	RES-CHIP	1M	5%	1/16W
R801	1-216-864-11	METAL CHIP	0	5%	1/16W
R802	1-218-953-11	RES-CHIP	1K	5%	1/16W
R803	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R804	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R805	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R806	1-218-990-11	SHORT CHIP	0		
R807	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R808	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R809	1-218-990-11	SHORT CHIP	0		
R812	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R813	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R817	1-218-990-11	SHORT CHIP	0 (AEP,EE,UK)		
R819	1-218-990-11	SHORT CHIP	0		
R820	1-218-990-11	SHORT CHIP	0		
R822	1-218-990-11	SHORT CHIP	0		
R824	1-218-977-11	RES-CHIP	100K	5%	1/16W
R826	1-218-989-11	RES-CHIP	1M	5%	1/16W
R828	1-220-804-11	RES-CHIP	2.2M	5%	1/16W
R830	1-218-985-11	RES-CHIP	470K	5%	1/16W
R831	1-218-989-11	RES-CHIP	1M	5%	1/16W
R832	1-218-989-11	RES-CHIP	1M	5%	1/16W
R838	1-218-990-11	SHORT CHIP	0		
R839	1-218-990-11	SHORT CHIP	0		
R840	1-218-990-11	SHORT CHIP	0		
R842	1-218-990-11	SHORT CHIP	0		
R843	1-218-990-11	SHORT CHIP	0		
R844	1-218-990-11	SHORT CHIP	0		
R846	1-218-965-11	RES-CHIP	10K	5%	1/16W (AEP,EE,UK)
R848	1-218-990-11	SHORT CHIP	0		
R864	1-218-965-11	RES-CHIP	10K	5%	1/16W
R865	1-218-965-11	RES-CHIP	10K	5%	1/16W
R866	1-218-965-11	RES-CHIP	10K	5%	1/16W
R867	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R868	1-218-969-11	RES-CHIP	22K	5%	1/16W
R869	1-218-973-11	RES-CHIP	47K	5%	1/16W
R873	1-218-989-11	RES-CHIP	1M	5%	1/16W
R877	1-218-977-11	RES-CHIP	100K	5%	1/16W
R878	1-218-990-11	SHORT CHIP	0		
R879	1-218-990-11	SHORT CHIP	0		
R885	1-218-990-11	SHORT CHIP	0		
R886	1-218-990-11	SHORT CHIP	0		
R887	1-218-990-11	SHORT CHIP	0		
R888	1-218-990-11	SHORT CHIP	0		
R889	1-218-990-11	SHORT CHIP	0		
R894	1-218-965-11	RES-CHIP	10K	5%	1/16W
R896	1-218-977-11	RES-CHIP	100K	5%	1/16W
R897	1-218-990-11	SHORT CHIP	0		
R901	1-218-990-11	SHORT CHIP	0		
R902	1-218-990-11	SHORT CHIP	0		
R906	1-218-990-11	SHORT CHIP	0		
R908	1-218-990-11	SHORT CHIP	0		
R911	1-218-949-11	RES-CHIP	470	5%	1/16W
R912	1-218-965-11	RES-CHIP	10K	5%	1/16W
R913	1-218-977-11	RES-CHIP	100K	5%	1/16W
R914	1-218-977-11	RES-CHIP	100K	5%	1/16W
R935	1-218-977-11	RES-CHIP	100K	5%	1/16W
R941	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R942	1-218-965-11	RES-CHIP	10K	5%	1/16W
R949	1-218-977-11	RES-CHIP	100K	5%	1/16W
R970	1-218-965-11	RES-CHIP	10K	5%	1/16W
R971	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1001	1-218-985-11	RES-CHIP	470K	5%	1/16W
		< SWITCH >			
S801	1-786-407-41	SWITCH, PUSH (3 DIRECTION) (I◄◄ ►II►►I)			
S804	1-771-053-21	SWITCH, KEY BOARD (+ (HOLDER))			
S805	1-771-053-21	SWITCH, KEY BOARD (- (HOLDER))			
S806	1-771-248-11	SWITCH, TACTILE (+ (VOLUME))			
S808	1-771-248-11	SWITCH, TACTILE (■)			
S809	1-771-248-11	SWITCH, TACTILE (+ (VOLUME))			
S810	1-762-078-11	SWITCH, SLIDE (▬)			
S811	1-762-078-11	SWITCH, SLIDE (G-PROTECTION)			
S820	1-762-805-41	SWITCH, PUSH (1 KEY)			
S821	1-762-078-11	SWITCH, SLIDE (AVLS)			
		< THERMISTOR >			
TH401	1-805-064-21	THERMISTOR, POSITIVE			

Ref. No.	Part No.	Description	Remarks
		< VARISTOR >	
VDR401	1-801-864-21	VARISTOR, CHIP (1608)	
VDR403	1-801-864-21	VARISTOR, CHIP (1608)	
VDR601	1-801-862-11	VARISTOR, CHIP (1608)	
VDR602	1-801-862-11	VARISTOR, CHIP (1608)	
VDR603	1-801-862-11	VARISTOR, CHIP (1608)	
VDR802	1-801-862-11	VARISTOR, CHIP (1608)	
		< VIBRATOR >	
X601	1-795-003-21	VIBRATOR, CRYSTAL 16.934MHz	
X701	1-795-891-21	VIBRATOR, CERAMIC 22MHz	
**********			
		MISCELLANEOUS	
		**********	
⚠102	X-3380-950-1	OPTICAL PICK-UP (DAX-25E)	
M901	A-3608-777-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
M902	A-3174-850-A	MOTOR ASSY, SLED (SLED)	
		ACCESSORIES	
		**********	
⚠	1-477-496-21	ADAPTOR, AC (AC-ES455K) (NE9:JE)	
⚠	1-477-496-41	ADAPTOR, AC (AC-ES455K) (NE1:JE/NE9:JE)	
⚠	1-477-497-21	ADAPTOR, AC (AC-ES455K) (NE9:KR)	
⚠	1-477-497-41	ADAPTOR, AC (AC-ES455K) (NE1:KR/NE9:KR)	
⚠	1-477-499-21	ADAPTOR, AC (AC-ES455K) (NE1:CH/NE9:CH)	
⚠	1-477-500-21	ADAPTOR, AC (AC-ES455K) (NE9:AEP,EE,E18)	
⚠	1-477-500-41	ADAPTOR, AC (AC-ES455K) (NE1:AEP,EE,E18/NE9:AEP,EE,E18)	
⚠	1-477-501-21	ADAPTOR, AC (AC-ES455K) (NE9:HK)	
⚠	1-477-501-41	ADAPTOR, AC (AC-ES455K) (NE1:UK,HK/NE9:HK)	
⚠	1-477-502-21	ADAPTOR, AC (AC-ES455K) (NE9:CND,TW)	
⚠	1-477-502-41	ADAPTOR, AC (AC-ES455K) (NE1:US,CND,TW/NE9:CND,TW)	
⚠	1-477-503-11	ADAPTOR, AC (AC-ES455K) (NE1:AUS)	
⚠	1-477-503-21	ADAPTOR, AC (AC-ES455K) (NE9:AUS)	
⚠	1-477-503-41	ADAPTOR, AC (AC-ES455K) (NE9:AUS)	
	1-477-573-11	REMOTE COMMANDER (RM-MC33EL)	
⚠	1-569-007-12	ADAPTOR, CONVERSION 2P (NE1:JE/NE9:JE)	
	1-756-120-23	BATTERY, NICKEL HYDROGEN (NE1:AEP,UK,EE,E18,HK,KR,TW,AUS,CH,JE)	
	1-756-120-32	BATTERY, NICKEL HYDROGEN (NE1:US,CND)	
	1-756-294-11	EXTERNAL BATERRY CASE (NE1:US,CND,UK,EE,HK,KR,AUS,CH,JE/NE9:CND,HK,KR,TW,AUS,CH,JE)	
	1-756-306-22	BATTERY, NICKEL HYDRIGEN (NE9)	
	1-756-342-11	STAND, CHARGE (NE1/NE9:AEP,E18)	
	3-021-018-01	LABEL, FRANCE (NE1:AEP,UK/NE9:AEP,EE,E18)	
	3-235-292-02	POUCH, CARRYING	
	3-252-232-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH,PORTUGUESE) (NE1:AEP,UK,AUS/NE9:AEP,AUS)	
	3-252-648-01	CRIP (REMOTE CONTROL)	
	3-252-232-21	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (FRENCH,DUTCH,SWEDISH)(NE1:AEP/NE9:AEP)	
	3-252-232-31	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (GERMAN,ITALIAN,FINNISH)(NE1:AEP/NE9:AEP)	
	3-252-232-41	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (ENGLISH,HUNGARIAN,RUSSIAN)(NE1:EE/NE9:EE)	

Ref. No.	Part No.	Description	Remarks
	3-252-232-51	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (POLISH,CZECH,SLOVAK)(NE1:EE/NE9:EE)	
	3-252-232-61	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (KOREAN) (NE1:KR,JE/NE9:KR,JE)	
	3-252-232-71	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (ENGLISH) (NE1:US)	
	3-252-232-81	MANUAL, INSTRUCTION (FOR SONIC STAGE,SIMPLE BURNER) (ENGLISH,FRENCH) (CND)	
	3-252-309-01	CASE, CHARGE (*)	
	3-253-604-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH,PORTUGUESE)(NE1:AEP,UK,AUS)	
	3-253-604-21	MANUAL, INSTRUCTION (FRENCH,DUTCH,SWEDISH)(NE1:AEP)	
	3-253-604-31	MANUAL, INSTRUCTION (GERMAN,ITALIAN,FINNISH)(NE1:AEP)	
	3-253-604-41	MANUAL, INSTRUCTION (ENGLISH,HUNGARIAN,RUSSIAN)(NE1:EE)	
	3-253-604-51	MANUAL, INSTRUCTION (POLISH,CZECH,SLOVAK)(NE1:EE)	
	3-253-604-61	MANUAL, INSTRUCTION (ENGLISH) (NE1:US)	
	3-253-604-71	MANUAL, INSTRUCTION (KOREAN)(NE1:KR,JE)	
	3-253-604-81	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (NE1:CND)	
	3-253-605-11	MANUAL, INSTRUCTION (ENGLISH,CHINESE) (NE1:E18,HK,TW,CH,JE)	
	3-253-976-11	MANUAL, INSTRUCTION (ENGLISH,CHINESE) (NE1:E18,HK,TW,CH,JE/NE9:E18,HK,TW,CH,JE)	
	3-254-273-11	CD-ROM,APPLICATION (NE1:US/CND)	
	3-254-273-21	CD-ROM,APPLICATION (NE1:AEP,UK,EE/NE9:AEP,EE,E18)	
	3-254-273-31	CD-ROM,APPLICATION (NE1:E18,HK,KR,TW,AUS,CH/NE9:CND,HK,KR,TW,AUS,CH)	
	3-254-273-41	CD-ROM,APPLICATION (NE1:JE/NE9:JE)	
	3-254-767-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH,PORTUGUESE) (NE9:AEP,AUS)	
	3-254-767-21	MANUAL, INSTRUCTION (FRENCH,DUTCH,SWEDISH) (NE9:AEP)	
	3-254-767-31	MANUAL, INSTRUCTION (GERMAN,ITALIAN,FINNISH) (NE9:AEP)	
	3-254-767-41	MANUAL, INSTRUCTION (ENGLISH,HUNGALIAN,SLOVAK) (NE9:EE)	
	3-254-767-51	MANUAL, INSTRUCTION (POLISH,CZECH,SLOVAK) (NE9:EE)	
	3-254-767-61	MANUAL, INSTRUCTION (KOREAN)(NE9:KR,JE)	
	3-254-767-71	MANUAL, INSTRUCTION (ENGLISH,FRENCH)(NE9:CND)	
	3-254-769-11	MANUAL, INSTRUCTION (NO INDICATION OF COUNTRY OF ORIGIN) (ENGLISH,CHINESE) (NE9:E18,HK,TW,CH,JE)	
	8-954-007-91	RECEIVER, EAR MDR-027SP/1 SET (NE1:US)	
	8-954-008-90	RECEIVER, EAR MDR-E808SP/C SET (EXCEPT NE1:US)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2003.04	New
1.1	2003.04	Deletion of part number for cabinet (upper) sub assy and MAIN board (SPM-03005)
1.2	2003.06	Addition of Canadian model (D-NE9)
1.3	2003.08	Addition of part number for cabinet (upper) sub assy and MAIN board (SVX) (SPM-03023)
1.4	2004.02	Deletion of Ref.No.1 and 5 for NE9 (SPM-04005)
1.5	2004.08	Addition of Dolby note, correction of IC301 Part No. on Electrical Parts List, correction of M901 and M902 on Exploded Views (SPM-04066)
1.6	2006.03	Changed into “ not supplied ” from Ref. No. 12 and Ref. No. 13 (SPM-06036)